

**REQUEST FOR BID - #N00045372C**

**FOR**

**ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN  
ASTRONOMY  
(AURA)**

**Operating the  
National Science Foundation's (NSF's)  
National Optical-Infrared Astronomy Research Laboratory  
(NOIRLab)  
Tucson, Arizona**

**“KPNO 4m Plan/Spec Reseal/Repaint Project”**

**BIDS MUST BE RECEIVED BY**

**Friday, Nov. 8, 2024, 3:00 p.m. MST**

Prepared by:

AURA/CAS  
Procurement Office  
950 N. Cherry Avenue  
P. O. Box 26732  
Tucson, AZ 85726-6732

25 September, 2024

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The following items are found on the **AURA/NOIRLab Bid Opportunities webpage**:

- **SAMPLE FIXED PRICE, SAMPLE SERVICES CONTRACT**
- **Information regarding important guidelines for work performed on the Tohono O’odahm Nation.**

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## KPNO 4M Plan/Spec Reseal/Repaint Project

RFB released/posted: Friday, 9/27/24

Communication of interest in attending site visit to CO:

Friday, 10/11/24, noon MST

**Site Visit, MANDATORY: Friday, 10/18/24, 10:00 a.m. at Kitt Peak**

Pre-bid questions due: Friday, 10/25/24, 9:00 a.m. MST

Answers distributed: Friday, 11/1/24, by 4:00 p.m. MST

**Bids Due: Friday, 11/8/24, 3:00 p.m. MST**

Decision made: Friday, 11/15/24, 4:00 p.m. MST

Project start date: December 2024 (tentative)

## SECTION I.

### INSTRUCTIONS TO BIDDERS

#### ARTICLE 1. DEFINITIONS

1.1 All terms and conditions set forth in the Fixed Price Service Contract template and attachments will be applicable to the final bid.

1.2 Bidding documents include: Request to Bid, Instructions to Bidders, proposed Contract, and Scope of Work/Technical Specifications with support documentation, any amendments issued prior to receipt of bids and Vendor's Bid Form.

1.3 Any amendments as issued prior to bid award will become part of the documents when the Fixed Price Service Contract is issued.

1.4 The "Vendor Contract Documents" will consist of the following: Request for Bid, Instructions to Bidders, Vendor's Bid, the written Service Contract between AURA, and the Vendor, the Scope of Work/Technical Specifications with the support documentation, and all amendments and/or modifications incorporated into the documents before their execution.

1.5 The Association of Universities for Research in Astronomy, Inc. is an Arizona non-profit corporation, hereinafter referred to as AURA. The term "AURA" includes its authorized representatives. AURA manages and/or operates astronomy "Centers" under cooperative agreements with the National Science Foundation. One such "Center" is the National Optical-Infrared Astronomy Research Laboratory ("NOIRLab"), formerly known as NOAO.

1.6 NOIRLab has main facilities located at 950 North Cherry Ave., Tucson, AZ 85719.

1.7 The National Science Foundation, hereinafter referred to as the "NSF", is an agency of the United States of America created under the National Science Foundation Act of 1950. The term "NSF" includes its authorized representatives.

1.8 The "Bidder" is the person or organization who/that submits a Bid in accordance with these Bid Instructions and Procedures and proposes to perform the work described in the Statement of Work and/or specifications, and who/that proposes to perform the work described in the Fixed Price Construction Contract. The term "Bidder" may be used in lieu of the term "Contractor" or "Vendor" throughout these Bid documents.

1.9 The term "Subcontractor" means a person or organization, who/that has a direct agreement with the Vendor to furnish labor, or labor and materials, at the site of the work. The term also includes lower tier Contractors of a Subcontractor, but it does not include suppliers who/that furnish materials not worked to a special design according to the drawings and specifications. Nothing contained in the Fixed Price Construction Contract Documents shall be deemed or construed to create any contractual relationship between AURA and any Subcontractor as defined above.

## ARTICLE 2. DESCRIPTION OF PROJECT

AURA/NOIRLab is releasing a Request for Bid (RFB) for a project to develop a plan with specification for the resealing and repainting of the 4M Mayall Telescope at the Kitt Peak National Observatory (KPNO).

## ARTICLE 3. BIDDING PROCEDURES

- 3.1 Bids shall be prepared on the forms provided in Section VI and include the following:
- a. **Completed “Contractor’s Bid for Service Contract”:** Bidder must complete in its entirety the contractor bid form labeled, “Section VI, Contractor’s Bid Documents, A. Contractor’s Bid for Service Contract which will set forth Contractor’s bid on the project.
  - b. **Completed “Qualification Package”:** Bidder shall fully complete the “Qualification Package” forms which follow Section VI titled, “Contractor’s Bid Documents.” It is very important that Bidder complete in detail the references form included in the Qualification Package. Bidder may include a more detailed written description of the references provided and the work performed for each referenced firm highlighting significant accomplishments, if desired.
  - c. **License Numbers and Resolution.** The Bidder shall submit with its Bid, the Vendor’s License number(s) applicable to the work to be performed, and a copy of a corporate or LLC resolution certified either by the Secretary of the Corporation or by a Member of the LLC that the resolution passed at a meeting of the board of directors of the corporation or by the members of the LLC, validly called, at which a quorum of board members or LLC members were present, indicating who within the Bidder’s organization has legal authority to bind the organization on a contract. The Bidder shall include the information for their organization’s registrations with the Arizona Board of Technical Registration.
- 3.2 a. Prices quoted in the Bid(s) are to INCLUDE all applicable federal, state and local taxes. AURA is sales tax exempt.
- b. Prices are to include the cost of all transportation, materials, equipment, tools, supplies, labor and services necessary or proper for the performance and completion of the work, except such as may be otherwise expressly provided for in the Bid documents.
- 3.3 In the event of a discrepancy between the prices quoted in the Bid in words and those quoted in figures, the words shall control.
- 3.4 Submission of the Bid. Subject to the following procedures and requirements, Bids shall be submitted electronically to the Contracts Officer in charge of this project.
- a. **Electronic Submission.** Bidder shall submit the documents described in Article 3.1 above electronically, in PDF format. **The date/time signature-marked no later than the due date and time for receipt of bids for this RFB.** The failure to timely submit these documents to AURA in accordance with these rules shall result in the elimination of Bidder’s Bid from consideration.

**b. In case of technical difficulties, a phone call must be received by the Contracts Officer by the date/time due, and a plan to have a copy hand delivered to the Contracts Officer will be arranged.**

3.5 No other forms of submission of Bids will be considered. No other forms of submission for modifications to Bids will be considered. Modifications to Bids submitted may be made electronically or via the delivery of a hard-copy of the modified Bid Documents, if the modified Bid Documents are delivered to AURA in accordance with the rules set forth in 3.4 above on or before the 3:00 o'clock P.M. Mountain Standard Time on the Bid due date.

3.6 A Bidder may withdraw its Bid(s), either personally or by written request, at any time prior to the scheduled closing time for receipt of Bids.

3.7 A person, firm or organization who/that has submitted a sub-Bid to a Bidder, or who has quoted on materials to a Bidder, is not disqualified from submitting a sub-Bid or quoting to other Bidders.

3.8 Unless otherwise provided for in any addendum to these Bid Instructions, no Bidder may withdraw, modify or cancel its Bid(s) for a period of one hundred twenty (120) days after the time designated for receipt of Bids.

#### **ARTICLE 4 COMMUNICATION AND QUESTIONS**

Any questions or requests for clarification of this proposal should be directed to:

Sherri Abney, Contracts Officer  
Association of Universities for Research in Astronomy, Inc.  
950 N. Cherry Avenue  
Tucson, AZ 85719  
Ph: 520-404-6106 (cell)  
Email: [sabney@aura-astronomy.org](mailto:sabney@aura-astronomy.org)

**Clarification or direction by other persons at AURA is NOT permitted during the RFB process.**

General or procedural questions can be addressed by telephone or email. Technical or scientific questions must be submitted by email and must be received by the date noted on the schedule (Friday, 10/25/2024, 9:00 a.m. MST). All questions and responses will be provided to ALL parties present at the site visit by Friday, 11/1/2024 by 4:00 p.m. MST

#### **ARTICLE 5. EXAMINATION OF DOCUMENTS**

5.1 AURA reserves the right to make additions, deletions, or modifications to the Bid documents in writing by amendment at any time prior to the closing date. If, in the opinion of the Contracts Officer (hereinafter CO), any such change causes an increase in the time required for submission of Bids, the CO may, at her sole discretion, adjust the closing date and time accordingly.

5.2 The Bidder shall examine the Bid documents carefully and, not later than three (3) days prior to the date for receipt of Bids, make a request for interpretation or correction of any ambiguity, inconsistency, or error which it may discover. All requests shall be made in writing, including postal services, next day services and via email, addressed to the AURA CO.

5.3 All interpretations and corrections shall be issued in writing by the AURA CO in the form of an Amendment. The Bidder shall not rely on any interpretation or correction given by any other method.

5.4 Prior to receipt of Bids, addenda, if required, will be mailed to each Bidder who has requested and/or has been sent the Bid documents.

5.5 The failure of any Bidder to receive or examine any form, instrument, amendment or other document, or failure to acquaint itself with existing conditions shall not relieve the Bidder from obligations and responsibilities with respect to its Bid or to the Fixed Price Construction Contract. The submission of a Bid shall be taken as prima facie evidence of compliance with this section.

## **ARTICLE 6. REPRESENTATIONS**

6.1 Each Bidder **MUST attend** the mandatory pre-bid/site visit meeting that is scheduled and visit the work/project site prior to submitting a bid. Information about the location, date and time of the mandatory pre-bid/site visit meeting is set forth Section II of this RFB.

6.2 By submitting a Bid, each Bidder represents that it is familiar with existing conditions under which the work will be performed.

6.3 a. The Bidder, by submitting its Bid, represents that it has read and understands the Bid documents, and by submitting a Bid acknowledges acceptance of all of the Terms and Conditions of the Bid Documents as defined in 1.2 of these Bid Instructions.

b. Any exceptions to the Construction Contract Documents shall be stated on the Vendor's Letterhead, if available, and submitted with its Bid. Exceptions shall be stated clearly and concisely. If the Bidder has exceptions, alternative wording shall be provided for consideration by Bidder to the AURA CO.

c. The Bidder, by submitting a Bid, certifies that the Construction Contract Documents, have been reviewed and accepted by the Bidder, or that the Bidder has noted its exceptions to the Construction Contract Bid Documents with its Bid.

6.4 The Bidder shall submit with its Bid, the Bidder's License number(s), if applicable to the work to be performed, and a resolution indicating who within the Bidder's organization has authority to bind the organization.

## ARTICLE 7. SUBSTITUTIONS

7.1 Each Bidder represents that its Bid is based upon the specifications, materials and equipment described in the Bid documents, unless substitutions have been permitted in advance.

7.2 All Bids containing substitutions shall be accompanied by full and complete technical specifications for approval purposes. The AURA Technical Representative may request such other information as may be required for approval either before or after receipt of bids.

## ARTICLE 8. COMPLETION TIME

The Bidder shall specify in its Bid the number of calendar days required to complete the work described. All costs included in the Bid shall be for the work to be completed within that period.

## ARTICLE 9. TRIBAL REGULATIONS

9.1 The Observatory is located within the boundaries of the Tohono O’odham Nation. To the extent applicable, all Bidders shall comply with Ordinance No. 01-85, “TERO Ordinance” and the implementing regulations issued by the Tohono O’odham Employment Rights Commission, as well as any other applicable tribal laws or regulations. A copy of the Ordinance No. 01-85 may be found on our website <http://auracas.aura-astronomy.org/?q=bids> or at <http://www.tonation-nsn.gov/department-public-safety/tero/>.

9.2 All entities, contractors or subcontractors that intend to engage in business activity on the Tohono O’odham Nation must submit for approval to the Tribal Employment Rights Office a contracting, subcontracting, employment and training plan prior to the commencement of work on the Tohono O’odham Nation. A copy of the TERO Compliance Agreement Plan is posted on our website <http://auracas.aura-astronomy.org/?q=bids> and also can be obtained by clicking on “Compliance” at the following Website [www.tonation-nsn.gov/department-public-safety/tero/](http://www.tonation-nsn.gov/department-public-safety/tero/). Under Ordinance No. 01-85 and its implementing regulations, no new employer may commence work on the Tohono O’odham Nation until it has met with TERO and developed an acceptable plan for meeting its obligations under Ordinance 01-85. The primary contractor/employer is responsible for the TERO compliance of its subcontractors or suppliers.

9.3 The successful bidder is **required** to contact Tribal Employment Rights Office (“TERO”) of the Tohono O’odham Nation, at the number indicated below, to obtain a copy of the Ordinance.

Director  
Tribal Employment Rights Office  
Tohono O'odham Nation  
P. O. Box 40  
Sells, AZ 85634  
(520) 383-3304 or (520) 547-8160  
FAX (520) 383-2781  
[www.tonation-nsn.gov/department-public-safety/tero/](http://www.tonation-nsn.gov/department-public-safety/tero/)

9.4. The Tohono O’odham Nation charges an employment rights fee to raise money for the Tohono O’odham Employment Rights Commission. The current Employment Rights Fee required to be paid by a “covered employer” is a one-time fee of ½ of 1% of the total value of any

construction contract to be performed on the Reservation having a value of \$100,000 or more, see Section 1110 (A) of the TERO Ordinance. The payment of this fee is administered by the TERO office. See [www.tonation-nsn.gov/department-public-safety/tero/](http://www.tonation-nsn.gov/department-public-safety/tero/) , click [Contractor Information](#).

9.5 The successful Bidder may also be subject to Ordinance No. 03-81, "Transaction Privilege Taxes".

See <http://www.tonation-nsn.gov/tax-information/>

9.6. Questions regarding any applicable tribal taxes should be directed to the Tohono O'odham Office of Treasurer in Sells at 520-383-1800.

9.7 All entities, contractors or contractors that intend to engage in business activity on the Tohono O'odham Nation must comply with "The Tohono O'odham Solid Waste Management Code" prior to commencement of work on the Tohono O'odham Nation. See <https://auracas.aura-astronomy.org/wp-content/uploads/2022/09/Waste-Mgmt-Code.docx>

9.8 The successful bidder is required to contact the Tohono O'odham Nation Environmental Protection Office (EPO) for compliance information at the number indicated below.

Manager  
Environmental Protection Office  
Tohono O'odham Nation  
P. O. Box 837  
Sells, AZ 85634

(520) 383-8680 or (520) 383-8681  
FAX (520) 383-8333

The successful bidder is **required** to contact the Tohono O'odham Solid Waste Regulatory Office (SWRO) for information on waste management and disposal. Questions regarding hauling permits should be directed to the Tohono O'odham Solid Waste Regulatory Office in Sells at 520-383-8680. <https://auracas.aura-astronomy.org/wp-content/uploads/2022/09/Waste-Mgmt-Code.docx>

## **ARTICLE 10. BID GUARANTEE; PERFORMANCE AND PAYMENT BONDS**

A Bid Guaranty and Performance and Payment Bonds are required for contracts involving construction or facility improvements exceeding \$100,000.00. If Bidder's Bid exceeds \$100,000.00 the following shall be applicable:

10.1 Bidder shall provide a bid guarantee equivalent to five (5%) percent of the bid price ("Bid Guarantee"). The Bid Guarantee shall consist of a firm commitment such as a bid bond, certified check or other negotiable instrument which shall accompany Contractor's Bid as assurance that Contractor shall upon acceptance of its Bid execute such contractual documents as may be required within the time specified.

10.2 Bidder shall provide a performance bond in the full amount of the Contractor's Bid Price, guaranteeing the performance of the terms of the Fixed Price Construction Contract for the stipulated price within the time specified for completion ("Performance Bond").

10.3 Bidder shall provide a payment bond in the full amount of the Contractor's Bid Price assuring payment as required by statute of all persons supplying labor and materials in the execution of the work provided for in the Fixed Price Construction Agreement ("Payment Bond").

10.4 Bonds shall be obtained from companies holding certificates of authority as acceptable sureties pursuant to 31 CFR, part 223, "Surety Companies Doing Business with the United States."

10.5 Bidder shall include the original bid guarantee, the original performance bond and the original payment bond with its "Contractor's Bid Documents" submitted to AURA.

## **ARTICLE 11. EVALUATION OF BIDS**

11.1 Bids will be opened and evaluated privately after the deadline for receipt of Bids.

11.2 Bids will be evaluated based on the following factors:

- Cost to AURA
- Ability to meet technical specifications and scope of work
- Warranties provided by Contractor
- Contractor's qualifications, experience and references
- Ability and history of successful completion of contracts of this type, meeting projected schedules, and overall experience performing similar work
- Material Vendors or Sub-Contractors used
- Exceptions to terms set forth in Vendor Agreement provided by Bidder

11.3 All bidding documents received are considered confidential and will not be released.

11.4 The award of the Fixed Price Construction Contract for the work described in the Scope of Work/Technical Specifications, if made by AURA, will be made to the responsible and qualified bidder. However, AURA shall determine, in its own discretion, which Bid best meets the requirements and qualifications of the Scope of Work/Technical Specifications and Construction Contract and whether it is in the best interests of AURA to accept the Bid. Therefore, Bidder should ensure that all information requested is included in its Bid.

## **ARTICLE 12. TIME PERIOD FOR EVALUATION OF BIDS; REJECTION OF BIDS; IRREGULARITIES**

12.1 AURA reserves the right to hold any or all Bids for a period of up to one hundred twenty (120) calendar days.

12.2 AURA shall have the right to take up to one hundred twenty (120) calendar days to evaluate the Bids submitted and to make a decision.

12.3 AURA reserves the right to accept or reject any or all Bids or any combination thereof, to withhold an award for any reason it may determine, or to waive any irregularities or informalities in the Bids or in the submission of Bids.

## **ARTICLE 13. FORM OF AGREEMENT**

The form of agreement that will be used shall be a “Fixed Price Service Agreement.” A template of the above mentioned contract and the terms and conditions incorporated by reference into said agreement may be found at AURA/NOIRLab Bid Opportunities webpage: <http://auracas.aura-astronomy.org/?q=node/103>. The final form of agreement presented to the Contractor selected to perform the work may vary from the template format attached hereto, depending on the Bid documents submitted by Contractor and other facts and circumstances deemed relevant by AURA.

## **ARTICLE 14. LAW**

The laws of the state of Arizona shall govern the interpretation of these Bid Documents and the interpretation of the Fixed Price Service Contract.

## **ARTICLE 15. DAVIS-BACON WAGE RATES**

15.1 Bidders shall note that procurements of over \$2,000.00 for construction, alteration or repair are subject to the Davis-Bacon Act (40 U.S.C. 276a-276a-7), and that laborers or mechanics must be paid in accordance with the Wage Rates set forth in the current wage rate decision for building construction projects performed in Pima County, Arizona. A copy of the current wage rates for building construction in Pima County, Arizona is attached and appears in Section VII A. Further, Davis Bacon also requires that companies that employ laborers and mechanics in building construction projects pay their mechanics and laborers at least weekly. Each Bidder, by submitting a Bid, certifies that: (i) it accepts the Davis Bacon wage rate set forth in Section VII A and will pay its mechanics and laborers the then current Davis Bacon wage rate for building construction in Pima County, Arizona, if selected to perform the work covered by this RFB; and (ii) it will pay its mechanics and laborers at least weekly.

15.2 The Davis-Bacon Act and Wage Determination material is found at: <http://www.gpo.gov/davisbacon/> and <http://www.wdol.gov/>.

15.3 Certified payroll reports must be submitted to the U.S. Department of Labor and a copy should be sent to the AURA Contracts Administrator, [sabney@aura-astronomy.org](mailto:sabney@aura-astronomy.org).

## **ARTICLE 16. CONTRACTING WITH SMALL BUSINESSES, MINORITY-OWNED FIRMS AND WOMEN’S BUSINESS ENTERPRISES**

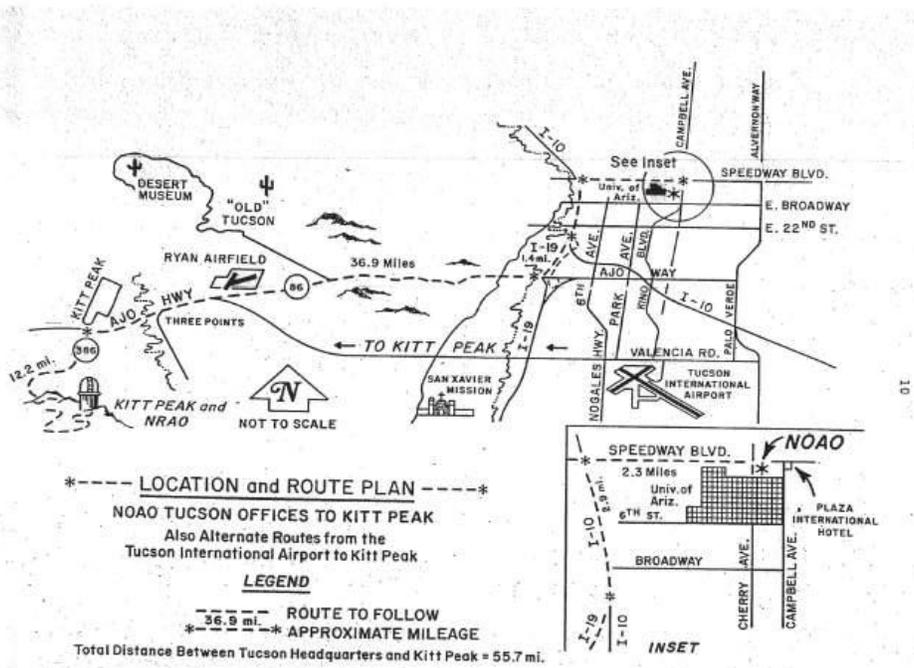
AURA encourages small businesses, minority owned firms and women’s business enterprises to bid on AURA jobs that they are qualified to bid on. Contractors seeking to bid on “Kitt Peak National Observatory – SOLIS Tower Demolition” project are encouraged to utilize, as much as possible, small businesses, minority owned firms and women’s business enterprises as subcontractors.

## **ARTICLE 17. AURA/NOIRLab BID OPPORTUNITIES WEB PAGE DISPLAYING BID OPPORTUNITIES; DUTY OF BIDDER TO CHECK WEB PAGE; PARTICIPATION IN PRE-BID MEETING AND PUBLICATION OF NAMES OF ATTENDEES WHO ATTENDED PRE-BID MEETINGS ON AURA/CAS BID OPPORTUNITIES WEB PAGE**

AURA has established a Web page to display AURA bid opportunities. The link to the webpage is:  
<http://auracas.aura-astronomy.org/?q=node/103>

The AURA/CAS Bid Opportunities Web page will display all pending RFB, RFPs, etc., issued by the AURA/CAS as well as any amendments issued to such RFBs, RFP's, etc. In addition, AURA shall display the name and contact information for any company which attends an AURA/NOIRLab pre-bid meeting on the AURA/CAS Bid Opportunities Web page for the purpose of apprising prospective subcontractors and the public which firms attended the pre-bid meeting(s). This will enable interested subcontractors to contact such firms for purposes of supplying subcontract prices. It shall be the Bidder's obligation to check the AURA/CAS Bid Opportunities Web page to view and obtain copies of amendments and announcements related to the RFB they seek to bid on.

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## SECTION II

### MANDATORY PRE-BID MEETING/SITE VISIT INFORMATION

There is a MANDATORY pre-bid/site visit meeting scheduled for this project. **To be eligible to bid on this project, the Bidder MUST attend this meeting.** This site visit is tentatively scheduled for **10:00 a.m., MST on Friday, 10/18/24.** The meeting will be held at Kitt Peak within the confines of the Kitt Peak National Observatory.

In order to schedule the visit to the summit, interested bidders MUST notify Sherri Abney, the AURA Contracts Officer via email at [sabney@aura-astronomy.org](mailto:sabney@aura-astronomy.org) by Friday, 10/11/24, noon MST. Confirmation of attendance must be communicated so that we can coordinate travel up to the summit. Here is the info we will require:

- Company name
- Contact info (direct/cell number so that alerts can be given to drivers for the site visit, re: road closures, weather updates, etc..)
- Number of attendees (we request carpooling, one vehicle per vendor if possible)

There is planned work by the Az. Department of Transportation replacing guardrails on Hwy 386. Be aware of all signage and speed limits.

Upon arriving at the summit, bidders attending the meeting are requested to park in the large parking lot at the Visitor's Center and assemble in front where directions will be given. Attendees will meet with KP personnel and the AURA contracts personnel for a meeting to discuss the scope of work and technical specifications. Attendees will then visit all the site of this project for a walk-through.

Suggestions: Please be sure to wear appropriate footwear for outdoor/indoor walking (walking shoes or hiking boots suggested). Feel free to bring a camera/cellphone to take pictures for reference. Temperatures are always much cooler at KP than in Tucson, so be prepared for a 10-20 degree difference. Wind is also a factor at KP.

AURA's Standards of Workplace Conduct Policy will be distributed and must be signed by each visitor prior to tour of the work site.



## Section III

Cerro Tololo Inter-American Observatory  
Community Science and Data Center  
Gemini Observatory  
Kitt Peak National Observatory  
Vera C. Rubin Observatory

# Statement of Work (SOW) for Mayall Exterior: Project Plan and Specifications for Repainting and Resealing Telescope Building Structure

**NOIR-01-MSS-www-000xxx**

Release Version: 1.0

Release Date: 2024-09-13

Restricted



This document is **under review, under DCB evaluation, approved**. It is effective as of 2024-09-13.  
Change to this document is not authorized unless a DCR is submitted and approved via the [NOIRLab Document Control Portal](#).



## Approvals

Statement of Work (SOW) for Mayall Exterior

NOIRLab Reference Code	Release Version
NOIR-01-MSS-www-000xxx	1.0
Author(s)	Update Date
Benjamin White	September 13, 2024
Mei Starns	
Michelle Edwards	
Matt Evatt	
Dick Joyce	
Crystal Cardoza	
Document Owner	Approval Date
Benjamin White	September 13, 2024
Approved By	Approval Date
Lori Allen	September 17, 2024
Michelle Edwards	enter a date.
Dick Joyce	September 13, 2024
Crystal Cardoza	September 13, 2024



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## 1.0 Overview

NOIRLab has obtained funding to remediate and mitigate hazardous materials found in the Mayall 4-meter Telescope building structure located at Kitt Peak National Observatory (KPNO). To facilitate this work, NOIRLab is seeking an environmental consulting firm to develop a comprehensive project plan and detailed specifications for the repainting and resealing of the building structure in question. The primary objectives are to review the existing structure, design a project plan for remediation, provide detailed specifications, evaluate/identify necessary building modifications to implement the plan, and provide estimated budget costs for the work.

The project plan shall detail to remediate hazardous materials-containing exterior paint, how to waterproof the exterior building structure, and how to paint the exterior. Ensuring the structure is watertight enables the future safe remediation of interior asbestos-containing materials (i.e. on interior steel members). This designed plan will be implemented by other contractors.



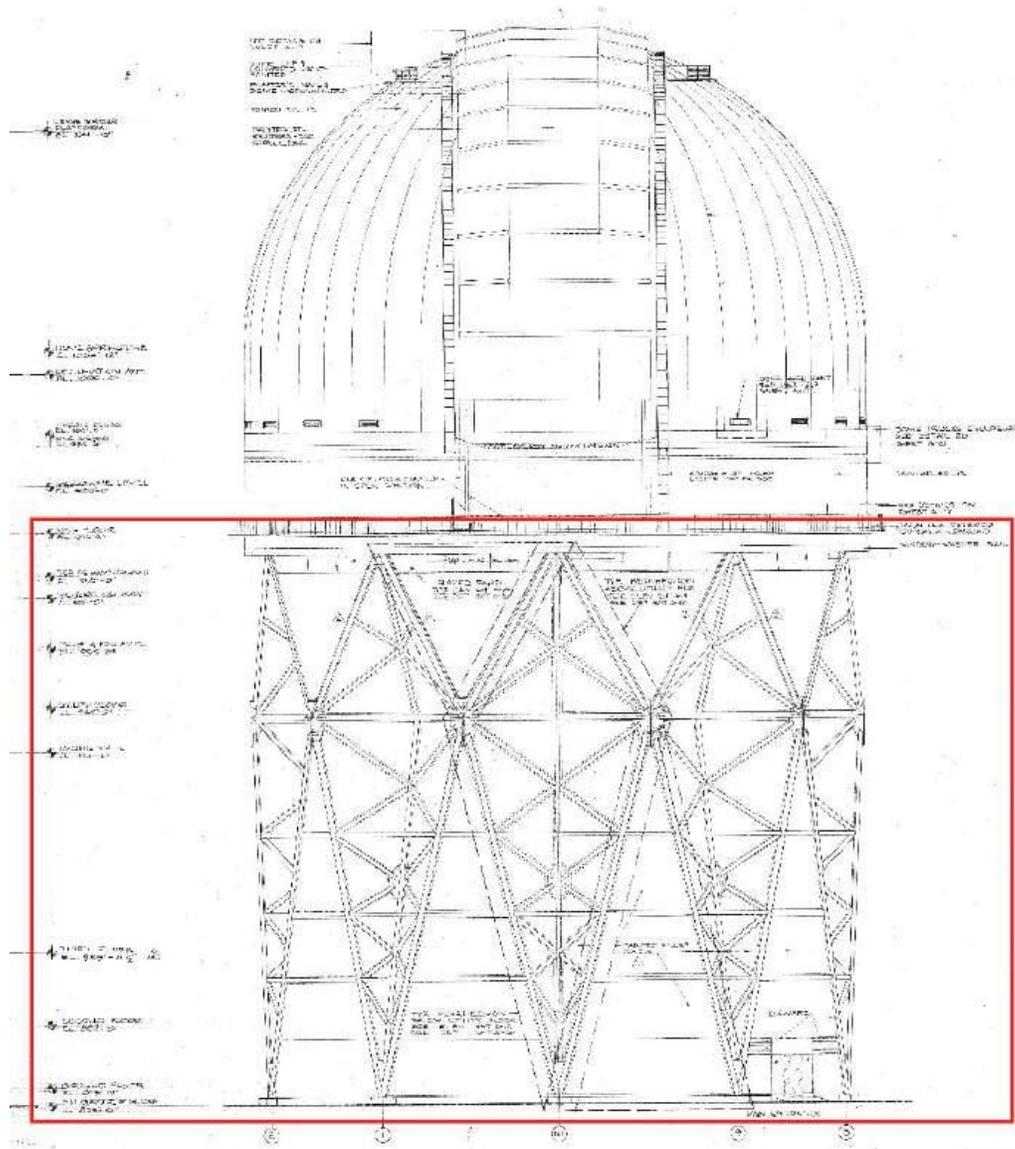
*An aerial view of the Mayall at KPNO. Credit: Kitt Peak National Observatory/NOIRLab/NSF/AURA/P. Marenfeld.*

## Background Information

The Nicholas U. Mayall 4-meter Telescope was the second-largest telescope by aperture at the time of its first light in 1973. The 18-story telescope, located just below the summit of Kitt Peak, can be seen from over 50 miles away. Today, it is the largest at Kitt Peak National Observatory.

The Mayall telescope currently hosts the Dark Energy Spectroscopic Instrument (DESI), the most powerful multi-object survey spectrograph in the world. DESI is supported by the Department of Energy (DOE) Office of Science. The DESI project and the operations of the survey are led by the Lawrence Berkeley National Laboratory.

## Area of Work



Elevation drawing of the Mayall at KPNO. Area of Work is shown within the red boundary. Details can be found in the Elevation and Section Drawing file in Appendix A. Credit: Kitt Peak National Observatory/NOIRLab/NSF/AURA/SOM.

Area of work is shown in the above figure within the red boundary. This includes the entire exterior structure from Finished Grade Level at EL 873'-0" to the Main Floor Level at EL 972'-6" (henceforth referred to as the "building structure"). This project scope does not include anything above the Main Floor Level (henceforth referred to as the "dome"). Details can be found in the Elevation and Section Drawing file in Appendix A.



## General Site Conditions

1. The facility is owned by the National Science Foundation (NSF) and is located about 56 miles west of Tucson, AZ, within the boundaries of the Tohono O’odham Nation (TON) at the terminus of Arizona State Route 386. KPNO is an internationally-renowned observatory operated by NOIRLab for the Association of Universities for Research in Astronomy, Inc. (AURA) through a cooperative agreement with the NSF. The facility is situated at about 6800+ feet above sea level.
2. The internal roads are the Observatory’s responsibility and are utilized by both vehicles and general public pedestrians visiting the site. Safety on the roadways is a primary concern and a maximum speed limit of 10 mph is required on the summit.
3. Regular working hours on Kitt Peak are from 8:00 AM to 4:00 PM. Other arrangements for work in daylight hours may be mutually established in advance with the Owner’s Technical Representative. Under no circumstances shall any exterior construction work take place during non-daylight hours.
4. Many of the occupants located on KPNO are day sleepers. In order to reduce disruption to these occupants, noisy activities and/or vehicular traffic in the dorm areas must be controlled as much as possible and generally limited to the hours of noon to 4:00 PM, depending on the season.
5. The scientific use of the Mayall facility shall remain in operation. Telescope operations must continue undisturbed throughout the project. These operations include, but are not limited to: dome movement/opening, staff and visitor access to building, garage access, access to mirror recoating facilities, etc.
6. The site has limited access to water, as it collects and treats its own supply. This constraint must be carefully considered when developing the lead paint encapsulation plan.

## Codes and Standards – Safety

1. Contractor(s) shall comply with the requirements of all applicable provisions of the latest edition of the International Code Council publications (IBC, ADA, NEC, UMC, UPC, etc.), as well as all other applicable State and National Codes, Kitt Peak guidelines, and Tohono O’odham regulations.
2. Contractor(s) shall be aware of and comply with all OSHA requirements and regulations. Contractor(s) shall take all measures necessary to protect their employees, KPNO personnel, and visitors in adjacent areas from injury related to the work. Appropriate barricades and signage shall be utilized. The facilities will be in use during the performance of this contract.
3. Contractor(s) and personnel shall be licensed/certified in the State of Arizona in the disciplines of any work to be performed (i.e. hazardous materials abatement, etc.).
4. Contractor(s) shall comply with applicable TO Tribal Employment Rights Office (TERO) and TON Environmental Protection Office (EPO) regulations and provide evidence of compliance to AURA contracts office prior to starting work, as necessary.
5. As a federally-owned facility located on tribal lands, Kitt Peak National Observatory is the Authority Having Jurisdiction (AHJ).
6. Contractor(s) shall be responsible for the proper protection of their materials and equipment until the completion of the project, including protection from inclement weather.



## 2.0 Scope of Work

The scope of work includes the following tasks:

### 2.1 Site Assessment and Preparation:

- Conduct a thorough site assessment to evaluate the current condition of the telescope building structure.
- Identify areas of water intrusion, existing damage, and hazardous materials.
- Develop a comprehensive plan for maintaining telescope operations (i.e. dome movement/opening, staff access to building, garage access, access to mirror recoating facilities, etc.) throughout the project.

### 2.2 Lead Paint Remediation Design:

- Develop detailed specifications for the proper removal and disposal of exterior flaking paint containing lead and heavy metals, in compliance with standard and local environmental regulations.
- Design containment strategies to prevent the release of hazardous materials into the environment during paint removal.
- Develop specifications and detailed plans for the remediation of existing lead paint on the exterior.
- Design to include safety requirements according to all applicable codes and standards and or the requirements outlined in the *Safety Parameters for the Mayall Telescope* document, whichever is more stringent.

### 2.3 Waterproofing and Painting Specifications:

- Specify appropriate waterproofing materials and techniques.
- Include specifications for paint and caulking that are suitable for astronomical use (non-emissive).
- Ensure selected materials meet or exceed industry standards for lead and heavy metal remediation, to include durability and weather resistance.

### 2.4 Maintenance Requirements:

- Outline maintenance plan and training requirements for NOIRLab personnel responsible for maintaining and operating the newly painted and sealed structure.



## 3.0 Deliverables

The following deliverables will be provided by the environmental consulting firm in addition to the Scope of Work above:

### 3.1 Project Scope Definition:

- Scope Statement: Detailed description of the project scope, including objectives, deliverables, boundaries, and exclusions.
- Project Goals and Objectives: Clear goals and measurable objectives for the remediation project.

### 3.2 Site Assessment and Evaluation:

- Initial Site Survey Report: Comprehensive report on the current condition of the site, including areas with lead paint.
- Risk Assessment: Identification and analysis of risks associated with the project.
- Environmental Impact Assessment: Evaluation of potential environmental impacts and mitigation strategies.

### 3.3 Regulatory Compliance and Standards:

- Regulatory Requirements Documentation: Summary of relevant federal, state, and local regulations and standards.
- Compliance Strategy: Plan for ensuring compliance with all regulatory requirements. This includes proper mitigation and disposal of all hazardous materials and/or waste collected or produced throughout the project.

### 3.4 Remediation Methodology:

- Remediation Options Report: Analysis of different encapsulation and/or removal methods, including pros, cons, and cost estimates.
- Perform a Conceptual Design Review for NOIRLab and stakeholders.
- Respond and close out NOIRLab request for clarification to Review.
- Await Notice To Proceed from NOIRLab to the next phase of the project
- Recommended Remediation Method: Justification for the chosen remediation method based on site-specific conditions and requirements.
- Technical Specifications: Detailed technical specifications for the remediation materials and methods to be used.

### 3.5 Painting and Sealing Specifications:

- Surface Preparation and Requirements: Specify step-by-step method of surface preparation and requirements suitable for surface and location.



- Selection of Paint and Sealants: Identify paint and sealants approved for use in exterior industrial environments and compatible with the telescope's operational and site conditions.
- Application Methods: Specify step-by-step method of application suitable for surface and location.
- Site Protection Methods and Procedures: Identify procedures required to protect the site's operations and the surrounding environment.
- Quality Assurance and Inspection Requirements: Specify any required testing and special inspections.

### 3.6 Site Drawings and Plans

- Site Plans: Detailed drawings of the site, highlighting areas to be remediated.
- Detail Drawings: Detailed sections and elevations showing remediation details.
- Material Layout Plans: Plans showing the layout and placement of remediation materials.
- Access Plans: Plans that detail safe and practical access to areas that require remediation and painting, including necessary equipment for working at heights.

### 3.7 Work Plan and Procedures

- Work Plan: Step-by-step work plan outlining the remediation and painting process, emphasizing safety and feasibility.
- Health and Safety Plan: Comprehensive health and safety plan, including PPE requirements, safety procedures, fall protection, and a plan for working at heights. All plans shall comply with all applicable codes and standards and the requirements detailed in the *Safety Parameters for the Mayall Telescope* document.
- Quality Control Plan: Plan for ensuring quality throughout the remediation process, including inspection and testing protocols.
- Contamination Control Plan: Plan for ensuring hazardous materials and/or waste are appropriately contained and disposed of throughout the project, per standard and local regulations.

### 3.8 Long-Term Operation and Maintenance Plan:

Develop a long-term operation and maintenance plan for the exterior remediation:

- Detailed guidelines for routine inspections and maintenance of the waterproofing and paint systems.
- Procedures for addressing potential issues, such as reapplication of materials or repairs.
- Schedule for periodic reviews and updates to the maintenance plan.
- Include all warranties on work and products.

## 3.9 Document Delivery Requirements

Environmental consulting firm shall provide NOIRLab with all documents generated in support of the project including meeting minutes, review meetings, as-built drawings, permit documentation, and construction documentation and drawings, submittal comments, contractor site meetings, and calculations performed in support of the design choices. Documentation shall be provided in the following formats:

- PDF file format
- Native File Format (MS Office, Google Doc, Autocad 2d...)
- Consulting firm shall upload all project digital files to an agreed cloud storage space

## 4.0 Acceptance

Acceptance of the work will be based on the following criteria:

- Completion of all tasks outlined in the scope of work.
- Delivery of all specified deliverables.
- Verification that the project plan and specifications meet all performance requirements.
- Successful inclusion of training requirements for personnel responsible for operating and maintaining the new systems.

## 5.0 Project Management

The environmental consulting firm will provide project management for the duration of the design phase. This will include regular communication with the project stakeholders, a detailed Gantt chart including all project tasks, scheduling of site visits and assessments, and coordination of all project activities.

## 6.0 Assumptions

The following assumptions are made in relation to this project:

- The site will be made available to the consulting firm for all necessary visits and assessments. The project will be occurring on an operational telescope. Coordination with the project team is critical to ensure telescope operations are minimally affected.
- The consulting firm will have access to all necessary documentation and approvals required for the project, where available.
- All work will be completed in compliance with applicable codes and regulations.



## 7.0 Breakdown

Please break down the bids into the following line items:

- Labor Costs:
  - Breakdown of labor costs.
- Material Costs:
  - Detailed listing of materials required for the project, including any necessary testing and analysis.
- Equipment Costs:
  - Any specialized equipment or tools necessary for the project and their costs.
- Change Order Costs:
  - Any costs and/or fees associated with implementing a change order.
- Administrative Costs:
  - Any overhead costs and administrative fees associated with the project.
- Timeline:
  - Proposed timeline for the project, including any phases or milestones.
- Payment Schedule:
  - Your proposed payment schedule, outlining when and how payments will be made throughout the project.

## Appendix A. Applicable Reference Documents

Document Number / Link / Identifiers	Document Title
 NSF RIG 2021.pdf	NSF Research Infrastructure Guide
 Mayall Lead Intervention	Lead Intervention Presentation
 Drawings	Historical Drawings and As-Builts
 2376 Final Report EHS Evaluation ...	Exterior Testing Report
 Weather Records	Weather Records
 TON Solid Waste Management Cod...	Tohono O’odham Solid Waste Management Code
 2100-SOM5947-A-E-10.pdf	Elevation and Section Drawing
 Safety Parameters for Mayall Teles...	Safety Parameters for the Mayall Telescope



## Appendix B. List of Acronyms

Acronym	Full Form
ACM	Asbestos-Containing Material
AHJ	Authority Having Jurisdiction
AURA	Association of Universities for Research in Astronomy
CAS	Central Administrative Services (AURA)
COS	Center Operations Services
DESI	Dark Energy Spectroscopic Instrument
DOE	United States Department of Energy
EHS	Environmental, Health, and Safety
EL	Elevation
EPO	Environmental Protection Office (TON)
ES	Engineering Services
KPNO	Kitt Peak National Observatory
NOIRLab	National Optical-Infrared Astronomy Research Laboratory
NSF	National Science Foundation
PM	Project Management, Project Manager
PMO	Portfolio Management Office
RFP or RfP	Request for Proposal
SOW	Statement of Work
TERO	Tribal Employment Rights Office
TON	Tohono O’odham Nation
WBS	Work Breakdown Structure

**SECTION IV.**

**VENDOR'S/CONTRACTOR'S BID DOCUMENTS  
FIXED PRICE SERVICE CONTRACT**

DATE: \_\_\_\_\_

Project: 4M Plan Project N00045372C

TO: Procurement Office  
AURA/CAS  
Attn: Sherri Abney  
950 N. Cherry Avenue  
Tucson, AZ 85719  
Email: [sabney@aura-astronomy.org](mailto:sabney@aura-astronomy.org)

Via mail:

AURA/CAS  
Procurement Office  
950 N. Cherry Ave.  
Tucson, AZ 85719

1. By submitting this Bid, the Undersigned accepts all of the terms and conditions of the Bidding Documents as defined in 1.2 of the Instructions to Bidders.
2. In compliance with AURA's Request for Bid No. N00045372C and Instructions to Bidders, the Undersigned hereby proposes to furnish all labor, materials, equipment and supplies to perform the work for AURA's Project, titled, "4M Plan/Spec Reseal/Repaint Project" in accordance with the Scope of Work/Technical Specifications, and pertinent Fixed Price Service Contract Documents.
3. The Undersigned hereby specifies, in accordance with Article 8, Completion Time, of Instructions to Bidders, that the work shall be begin within \_\_\_\_\_ **calendar days** after signing the Fixed Price Construction Agreement and receiving a written notice to proceed.
4. In accordance with the above completion schedule (Paragraph 3) and attached scope of work and technical specifications, the Undersigned hereby proposes to accomplish the work described above ANNUALLY for the TOTAL of:

Title of Project: 4M Plan/Spec Reseal/Repaint Project

\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)

Total cost

5. To facilitate the bid review process, please provide below a general cost breakdown of the bid total in Paragraph 4 above. Note that costs may include both material and labor, or can be separated into cost for material and cost for labor. If an item that is listed is not included in this project, please enter a value of zero for this category.

If more room is needed, a separate page may be used for the cost breakdown.

6. The cost of the bid guaranty (if required) is:  
\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_).
7. The cost of the performance bond (if required) is:  
\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_).
8. The cost of the payment bond (if required) is:  
\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_).
9. The amount allocated to taxes is:  
AURA is tax exempt \_\_\_\_\_ DOLLARS (\$\_\_\_\_\_).

\_\_\_\_\_  
(Legal Name of individual, firm or Corporation Bidding)

\_\_\_\_\_

\_\_\_\_\_  
(Complete Business Address)

\_\_\_\_\_

(Signature of Authorized Representative)

\_\_\_\_\_

(Title)

## Qualification Package

### ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC.

#### CONTRACTOR/CONSULTANT QUALIFICATIONS

---

This form is used to obtain information from Contractors/Consultants about their qualifications. The information that is used to evaluate them is taken from this form as well as from other sources, including but not limited to the proposal submitted by Contractor/Consultant, performance evaluations, any additional data requested by the Association of Universities for Research in Astronomy, Inc., outside research and interviews with the most highly qualified Contractors/Consultants and their references.

#### GENERAL INSTRUCTIONS

This form presents the qualifications for a specific contract. Carefully comply with instructions when preparing and submitting this form. Be as concise as possible and provide all information pertaining to this project and contract.

#### DEFINITIONS

**Association of Universities for Research in Astronomy, Inc. (AURA):** AURA is a consortium of universities, and educational and other non-profit institutions that operates world-class astronomical observatories that AURA terms "centers." AURA's members are 42 U.S. institutions and 5 international affiliates. AURA views itself as acting on behalf of the science communities that are served by its centers, and as a trustee and advocate for the centers' missions.

**Contractor/Consultant: (Contractor):** A company or individual providing goods and/or services required for a program or project.

**Discipline:** Primary technical capabilities of key personnel, as evidenced by academic degree, professional registration, certification, and/or extensive experience.

**Key Personnel:** Individuals who will have major contract responsibilities demonstrated through unusual or unique expertise, e.g. architects, engineers.

**4M:** 4-meter Mayall Telescope 18-story telescope located at Kitt Peak National Observatory.

**NSF:** National Science Foundation

**NOIRLab:** The NSF's National Optical-Infrared Astronomy Research Laboratory, engaged in the management, operation, and maintenance of observatories and related activities for research in the field of astronomy.

(The remainder of this page is left intentionally blank)

## **SPECIFIC INSTRUCTIONS**

### **Contract-Specific Qualifications**

#### **Section A. Contract Information.**

##### **Contractor Point of Contact.**

1 - 5. Name, Title, Name of Contractor, Telephone Number, Fax (Facsimile) Number and E-mail (Electronic Mail) Address. Provide information for a representative of the contractor that AURA may contact for additional information.

#### **Section B. Sub-Contractor Information.**

6 - 8. List any sub-contractors (if applicable). Provide Company name, address, and role in this contract. Then provide the firm's name, full mailing address, and a brief description of the role of each firm's performance activities in this contract. The named subcontractors and outside associates or consultants must be used. Any changes warrant approval by the AURA/SOLIS contracting officer. If needed, attach an additional sheet in the same format as Section C.

#### **Section C. Business References**

#### **Section D. Representations and Certifications**

The Contractor is requested to check the appropriate boxes making the Representations and Certifications of the project a formal part of its pre-qualification. Failure to provide this information will prevent your company from being pre-qualified.

9. Small Business and Small Disadvantaged Business Contracting Program. AURA/SOLIS maintains a Small Business and Small Disadvantaged Business Contracting Program. Check Business Size as Small or Large as defined. Check as many that apply under the Business Classification. Check one under Business Status, for IRS reporting requirements.

10. Identification Numbers. Enter appropriate D-U-N-S Number and Federal Employee Identification Number and (Central Contractor Registration Number) (or Social Security Number, if appropriate).

#### **Section E. Debarment/Suspension Status**

The Contractor is required to read and certify the understanding of the debarment procedure and process.

11-12. Signature and Date: Signature and Date of an authorized representative attests that the information provided is current and factual.

13-14. Name, Title, and Address.

**Section F. Byrd Anti-Lobbying Amendment Certification**

The Contractor is required to read and certify that it has not used federal appropriated funds to pay anyone for influencing an agency or a member or employee of Congress in connection with the award of any federal contracts, grants, loans or agreements.

15-17. Signature, Date and Title: Signature and title of an authorized representative who certifies to the truthfulness of the statements set forth therein.

**Section G. Qualification of Corporate Signature**

Signature of the qualified person authorized, empowered, and directed on behalf of the Contractor to make and execute bids, offers, and contracts is required.

18-19. Signature and Date: Signature and Date of Contractor's officer to attest that the officer signing the Bid Documents is authorized to make and execute bids, offers, and contracts binding upon this corporation for the offer and sale of goods and/or services by this corporation in the course of its business in an amount specified in the Contractor's Bid Document.

20-21. Name, Title, and Address.

**Section H. Qualification of Limited Liability Company Signature**

Signature of the qualified person authorized, empowered, and directed on behalf of the Contractor to make and execute bids, offers, and contracts is required.

22-23. Signature and Date: Signature and Date: Signature and Date of Contractor's member/manager/officer to attest that the individual signing the Bid Documents is authorized to make and execute bids, offers, and contracts binding upon this limited liability company for the offer and sale of goods and/or services by this limited liability company in the course of its business in an amount specified in the Contractor's Bid Document.

24-25. Name, Title, and Address.

**Section I. Certification that no Conflict of Interest Exists.**

The Contractor is required to read and certify that no organizational conflict of interest exists as defined in the certification form.

26-28 Signature of authorized representative, date and printed name of authorized representative and title of authorized representative.

**Section J. Additional Information**

Use this section to provide additional information specifically requested or to address selection criteria not covered by the information provided.

**Section K. Declarations**

29. Signature and Date: Signature and Date of Contractor's officer to attest that the information contained in the Bid Documents is true and correct and to confirm that the Contractor understands its statements in the Bid Documents are subject to investigation and that dishonest answers may be grounds for disqualification and may subject the Contractor and its representative to criminal and civil liability.

**Section A. Contract Information**

Contractor Point of Contact

1. Name and Title: \_\_\_\_\_
2. Name of company: \_\_\_\_\_
3. Telephone number: \_\_\_\_\_
4. Fax number: \_\_\_\_\_
5. E-mail address: \_\_\_\_\_

---

**Section B. Sub-contractor (ONLY if applicable)**

6. Company Name: \_\_\_\_\_
7. Address: \_\_\_\_\_
8. Role in this contract: \_\_\_\_\_

---

**Section C. BUSINESS REFERENCES:**

On a separate sheet of paper, list five customers for whom your business is currently providing the same or similar services as those covered in the scope of work/technical specifications described in Section III of this RFB. Include all information requested below.

Please provide: the name of the business, the point of contact name and email contact information, the address, their phone and fax numbers and the type of project completed for the references:

**You may include any other information or documentation that may assist AURA in evaluating your qualifications.**

## D. REPRESENTATIONS AND CERTIFICATIONS

The contractor, by checking the appropriate boxes makes the following Representations and Certifications as a part of its bid (proposal). Submitted in response to the request identified above:

### 9. Small Business/Small Disadvantaged Business Contracting Program

AURA/NOAO maintains a “Small Business” and a “Small Disadvantaged Business” Contracting Program. Please check the appropriate circles below.

#### Business Size (check one)

- Small A domestic concern that is independently owned and operated, is not dominant in the field of its operations, qualifies under the criteria covering annual receipts set forth in Section 3 of the Small Business Act and does not employ more than 500 employees.
- Large A domestic concern which, including domestic and foreign divisions and affiliates, normally employs 500 or more persons, is independently or publicly owned or controlled and operated, and which may be division of another domestic or foreign concern.

#### Business Classification (check as many as are applicable)

- Minority 51% of business is owned by one or more socially and economically-disadvantaged individuals and whose management and daily business operations are controlled by one or more of such individuals.
- Socially and economically disadvantaged individuals including, Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans, Asian-Indian Americans, and other minorities, or any other individual found to be disadvantages pursuant to Section 8(a) of the Small Business Act.
- Native Americans include American Indians, Eskimos, Aleuts, and Native Hawaiians. Asian-Pacific Americans include United States citizens whose origins are Guam, the U.S. Trust Territories of the Pacific, Northern Marianas, Laos, Cambodia, and Taiwan.
- For assistance in determining your business size and socially and economically disadvantaged status, contact the nearest office of the Small Business Administration.
- Women-Owned A business that is at least 51% owned, controlled and operated by a woman or women.
- Note:** “Controlled” is defined as exercising the power to make policy decisions. “Operated” is defined as actively involved in the day-to-day management.



**E. DEBARMENT/SUSPENSION STATUS –**

Contractor certifies to the best of its knowledge and belief that it and its principals:

(a) are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from a covered transaction by any Federal department or agency;

(b) have not within a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state or local) transaction or contract under a public transaction; violation of Federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (federal, State or local) with commission of any of the offenses enumerated in paragraph b of this certification; and

(d) have not within a three year period preceding this proposal for bid had one or more public transactions (Federal, state or local ) terminated for cause or default.

The Contractor agrees to provide immediate notice to the AURA/SOLIS Contracting Officer in the event of being suspended, debarred, or declared ineligible by any department or Federal Agency, or upon receipt of a notice of proposed debarment that is received after the submission of the bid or offer, but prior to the award of the purchase order or contract.

**CERTIFICATION**

The Contractor hereby certifies that he or she has read the above Debarment/Suspension Status requirements and that he or she understands and will comply with these requirements.

Please advise this facility as soon as possible when the status of your company changes from that indicated above.

11. SIGNATURE OF AUTHORIZED REPRESENTATIVE:

\_\_\_\_\_

12. DATE SIGNED: \_\_\_\_\_

13. NAME AND TITLE OF SIGNER (PRINT OR TYPE):

\_\_\_\_\_

14. ADDRESS: \_\_\_\_\_

\_\_\_\_\_

**F. BYRD ANTI-LOBBYING AMENDMENT CERTIFICATION (31 U.S.C. §1352)**

(To be signed with each bid or offer exceeding \$100,000.00)

Contractor certifies, to the best of its knowledge and belief that:

(1) No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure of Lobbying Activities," in accordance with its instructions to the [as amended by "Government wide Guidance for New Restrictions on Lobbying, "61 Fed. Reg. 1413 (1/19/96). Note Language in paragraph (2) herein has been modified in accordance with Section 10 of the lobbying disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S. C. 1601 *et seq.*)].

(3) Contractor shall require that the language of this certification be included in the award documents for all sub-awards at all tiers including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such expenditure or failure.

**CERTIFICATION**

Contractor certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, contractor understands and agrees that the provisions of 31 U.S.C. A 3801 *et seq.*, apply to this certification and disclosure, if any.

15. SIGNATURE OF AUTHORIZED REPRESENTATIVE:

---

16. DATE SIGNED:

---

17. NAME AND TITLE OF SIGNER (PRINT OR TYPE):

---

**G. QUALIFICATION OF CORPORATE SIGNATURE**

(To be completed if Contractor is a corporation.)

\_\_\_\_\_, incorporated in the  
(Name of Corporation)

State of \_\_\_\_\_.

RESOLVED THAT:

\_\_\_\_\_, \_\_\_\_\_  
(Name) (Title)

of this corporation is hereby authorized, empowered, and directed, for and on behalf of this corporation and its corporate name, to make and execute bids, offers, and contracts binding upon this corporation for the offer and sale of goods and/or services by this corporation in the course of its business in an amount up to:

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)

**CERTIFICATION**

I hereby certify that I am a/the duly elected and qualified \_\_\_\_\_, of the above named corporation, that the forgoing is a true and correct statement of a resolution adopted at a meeting of the Board of Directors of said corporation, and that the foregoing resolution is in full force and effect, and has not been withdrawn, repealed, amended, or canceled.

IN WITNESS WHEREOF I have hereto set my hand on behalf of said corporation.

18. SIGNATURE OF OFFICER: \_\_\_\_\_

19. DATE SIGNED: \_\_\_\_\_

20. NAME AND TITLE OF SIGNER (PRINT OR TYPE):  
\_\_\_\_\_  
\_\_\_\_\_

21. ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

**H. QUALIFICATION OF LIMITED LIABILITY COMPANY SIGNATURE**  
(To be completed if Contractor is a limited liability company.)

\_\_\_\_\_, organized in the  
(Name of Limited Liability Company)

State of \_\_\_\_\_.

RESOLVED THAT:

\_\_\_\_\_, \_\_\_\_\_  
(Name) (Title)

of this limited liability company is hereby authorized, empowered, and directed, for and on behalf of this limited liability company and its limited liability name, to make and execute bids, offers, and contracts binding upon this limited liability company for the offer and sale of goods and/or services by this limited liability company in the course of its business in an amount up to:

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)

**CERTIFICATION**

I hereby certify that I am (i) a member or (ii) a/the duly elected and qualified/appointed \_\_\_\_\_, of the above named limited liability company, that the forgoing is a true and correct statement of a resolution adopted at a meeting of the members/managers of said limited liability company, and that the foregoing resolution is in full force and effect, and has not been withdrawn, repealed, amended, or canceled.

IN WITNESS WHEREOF, I have hereto set my hand on behalf of said limited liability company.

22. SIGNATURE OF MEMBER/MANAGER/OFFICER: \_\_\_\_\_

23. DATE SIGNED: \_\_\_\_\_

24. NAME AND TITLE OF SIGNER (PRINT OR TYPE):  
\_\_\_\_\_  
\_\_\_\_\_

25. ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

**I. CONFLICTS OF INTEREST CERTIFICATION**

(a) Contractor warrants that to the best of its knowledge and belief, and except as otherwise disclosed, it does not have any organizational conflict of interest which is defined as a situation in which the nature of work under a proposed contract and the prospective contractor’s organizational, financial, contractual or other interest are such that:

- (i) award of the contract may result in or be the result of an unfair competitive advantage;
- (ii) the Contractor’s objectivity in performing the contract work may be impaired; or
- (iii) that the Contractor has disclosed all relevant information and requested AURA to make a determination with respect to this Contract.

(b) Contractor agrees that if, after award, it discovers an organizational conflict of interest with respect to this Contract, it shall make an immediate and full disclosure in writing to the AURA Contracts Officer which shall include a description of the action which the Contractor has taken or intends to take to eliminate or neutralize the conflict. The AURA Contracts Officer may, however, terminate the contract for the convenience of AURA, if it would be in the best interests of AURA to do so.

(c) In the event the Contractor was aware of an organizational conflict of interest before the award of this contract and intentionally did not disclose the conflict to the AURA Contracts Officer, the Contracts Officer may terminate the Contract for default.

(d) Contractor shall require a conflict of interest disclosure or representation from subcontractors and consultants who may be in a position to influence the advice or assistance rendered to AURA and shall include any necessary provisions to eliminate or neutralize conflicts of interest in such consultant agreements or subcontracts involving performance or work under this Contract.

I declare under penalty of perjury that all statements and information contained in this document and any accompanying documents are true and correct, with full knowledge that all statements made in this document and any accompanying documents are subject to investigation and that any false or dishonest answer to any question may be grounds for disqualification from this solicitation or termination of any award and expose me and the represented organization to both civil and criminal liability.

26. \_\_\_\_\_  
Signature of Authorized Officer/Member/Representative

27. \_\_\_\_\_  
Printed Name and Title

28. Date: \_\_\_\_\_

**J. ADDITIONAL INFORMATION**

PROVIDE ANY ADDITIONAL INFORMATION AS REQUESTED. ATTACH ADDITIONAL SHEETS AS NEEDED.

**K. DECLARATION**

29. I declare under penalty of perjury that all statements and information contained in this document and any accompanying documents are true and correct, with full knowledge that all statements made in this document any accompanying documents are subject to investigation and that any false or dishonest answer to any question may be grounds for disqualification from this solicitation and expose me and the represented organization to both civil and criminal liability.

\_\_\_\_\_  
SIGNATURE OF AUTHORIZED REPRESENTATIVE

\_\_\_\_\_  
Date

\_\_\_\_\_  
Print Name