

Addendum No. 2 Dated 5/31/13 to
Laser Interferometer Gravitational Wave Observatory (LIGO)
Facility Re-roofing Project FY 2013

The California Institute of Technology solicits bids in conformance with the instructions contained in Invitation to Bid No. LP-12b for the Reroofing Project at the LIGO Hanford Observatory located on Horn Road, Richland, Washington. The link is [C1301598-v2](#) or Contact Rudy Arvizu, Senior Contracting Officer, at rarvizu@ligo.caltech.edu

Bids are to be received no later than 6/4/13, 2:00 pm local time.

- The email option is to Rudy Arvizu, Senior Contracting Officer, at rarvizu@ligo.caltech.edu with copies to Ed Jasnow, LIGO Operations Subcontract Manager, jasnow@ligo.caltech.edu and John Worden, Technical Manager, worden_j@ligo-wa.caltech.edu ; or
- Hard copy to the LIGO Hanford Observatory.

Interested parties are requested to contact (626) 395-4834 or rarvizu@ligo.caltech.edu
Invitation to Bid summary of addenda:

Addendum No. 1, dated 5/23/13

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| Question No. 1 | What detailed requirements exist for the bond? |
| Answer No. 1 | 5% (see Question and Answer 15). |
| Question No. 2 | What details are there for the bid submittal? Do we require electronic submission of all documents AND paper copies at the bid opening? Who do they send documents to? |
| Answer No. 2 | Electronic submission to Rudy Arvizu rarvizu@ligo.caltech.edu and copy John Worden worden_j@ligo-wa.caltech.edu |
| Question No. 3 | A question was raised about rub strips under lightning rod wiring? |
| Answer No. 3 | Whatever is required for the 30 year manufacturer's warranty? |
| No. 4 | Drawing package has a note re gutters:
NOTE 5 on D1300361 page 4 of 5 should say: This note applies to the Mid-Station and End-Station on the West Leg only and applies to the large rollup door of each building. |
| No. 5 | Caltech will resend the link to the ITB. |

Addendum No. 2, dated 5/31/13

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| Question No. 6 | Are we working under HSSA labor rates or Davis Bacon? |
| Answer No. 6 | The Department of Energy's Hanford Site Stabilization Agreement will not be incorporated into the contract. The National Science Foundation, who sponsors LIGO, has determined that the Davis Bacon Act does not apply. The Invitation to Bid references "The Memorandum of Understanding Between the California Institute of Technology and the Central Washington Building and Construction Trade Counsel, AFL-CIO for the Laser Interferometer Gravitational Wave Observatory at Hanford C1001971-v1 . Note – The Davis Bacon Act no longer applies." This Memorandum will be incorporated into any resulting contract. In summary union rates apply. |

Question No. 7	Page 2 of the Vendor Safety Evaluation in the bid package states that the Contractor Safety Evaluation Form must be completed and submitted with the bid if the amount of the bid exceeds \$100,000.
Answer No. 7	The LIGO Contractor/Vendor Safety Requirements M100401-v4 <u>requests</u> a bidder Safety Plan with the proposal. The Safety Plan is requested but not mandatory with the bid. The successful bidder will be required to have a LIGO approved Safety Plan as part of any Caltech contract.
Question No. 8	Would Caltech want a Hail Damage warranty if offered?
Answer No. 8	Not needed in LIGO's opinion. A Hail Damage warranty may be offered as an additive alternate proposal.
Question No. 9	Will the selected contractor provide a generator for power or can LIGO supply power?
Answer No. 9	LIGO has a small number of 110 volt circuits available on the building exteriors which the contractor may use.
Question No. 10	What is the likely time frame between selection and award? How much time is required for NSF approval?
Answer No. 10	NSF approval is 30 days after selection. This notice is usually a few weeks.
Question No.11	What specific lightning protection equipment must be procured? What quantities are needed?
Answer No. 11	Provide and install new lightning arrestor tripods and the cable pads. Hardware from VFC Inc. 801-512-5824. Chuck Neve. The tripod pad count is 300 tripods. Part number A140-18AD(300 tripods), A140-24AD (5 tripods). The cable mount count is 1,942 (5,825 lf of cable at 3ft spacing) part number A262.
Question No. 12	Will LIGO perform a test for asbestos?
Answer No. 12	Asbestos materials in construction were phased out starting in the late 70's and entirely in the 80's. Testing is not necessary for the buildings built in the late 90's.
Question No. 13	Substitution request for Carlisle Syntec's SureWhite EPDM roofing system to provide the 30 year 100 mph wind speed warranty based on incorporating the 5/8" Dens Deck Prime coverboard over polyiso insulation instead of the 1/2" high density polyisocyanurate cover board.
Answer No. 13	A bid must be submitted for the ITB requirements. This substitution may be offered as an alternate proposal. The criteria is a roofing system with a 30-year warranty whose details are similar to that detailed in the specification; and that the manufacturer who stands behind that warranty has the financial depth to reasonably be expected to continue in business for the duration of the warranty.
Question No. 14	Has the bid bond percentage been determined for the referenced project – 5, 10 or 20%?
Answer No. 14	5%

Question No. 15 RFI manufactures will require an additional protection strip of membrane beneath the lighting cable system to prevent wear on the new roof system.

Answer No. 15 Contractors should be aware that roofing manufacturers may require additional protection under lightning cable.

Question No. 16 Request for the contractors who attended the jobwalks. See below

Company	Contact	Email & Phone
Absolute Power Inc.	Rick Barry	Absolutepower_inc@live.com (509) 586-2555
All Surface Roofing	Darrel Kidwell	dkidwell@allsurfacerroofing.com (509) 279-9248
All Valley Sheet Metal Inc.	Gregory Hayther	greg@alvalsy.net (509) 249-6255
Ark Commercial Roofing	Tom Wilson	tomwilson@arkcommercialroofing.com (509) 443-9300
Banlin Construction	Seth McGary	seth@banlinconstruction.com (509) 586-2000
RMR Construction	Stacy Smisek	(208) 882-0775
Roof Toppers	Karl Schlecht	karls@rooftoppers.com ((306) 772-0403
Scholten Roofing Inc.	Barry Berendsen	tarbarry@alo.com (360) 398-8484
M.G. Wagner	Ric Fernandez	ric@mgwagnerroofing.com (509) 578-0934