

**Indian Institute of Astrophysics.**  
2nd Block, Koramangala, Bengaluru, 560034, India

## **Request for Expression of Interest**

Indian Institute of Astrophysics (IIA) is a premier national Institute in the country dedicated to research in the field of Astronomy, Astrophysics and Allied Sciences and Technology.

Indian Astronomical Observatory (IAO), Hanle, Leh, situated at a height of ~15000 ft, is being operated by Indian Institute of Astrophysics.

The two meter Himalayan Chandra Telescope (HCT) was installed and commissioned at IAO in the year 2000. It is a modern technology Alt-Az telescope in which different axes are controlled with Programmable Multi Axis Controller (PMAC). The secondary mirror is driven by a Quasi Static Tip/tilt (QSTT) and focus mechanism. The secondary drive is a three axis drive system, which has freedom to move all the three axes for secondary focus movement and either of the individual axes to introduce tip and tilt in the secondary mirror to correct for possible decentering and collimation error in the primary-secondary system. The details of the observatory and Telescope are available at "<http://www.iiap.res.in/centers/iao>".

IIA is planning to upgrade

- (a) drive of the secondary mirror and
- (b) the Telescope Control System (TCS) of the HCT.

To execute this work IIA is looking for prospective vendors.

In this regard expression of interest is invited from potential vendors who have expertise in executing similar work.

Keeping in view of the operational difficulties involved in such an upgrade, it is planned that the work will be carried out in two stages.

### **First phase:**

In the first stage, two part bids (technical and commercial) will be invited through Global tendering for conducting feasibility study, in which bidders are required to clearly state how they will go about such an upgrade and the time-line. In the proposal for feasibility study, firms should indicate whether they need to visit the site for conducting the feasibility study (as it needs a special permission from Government of India).

Two or more techno/commercially qualified vendors will be offered to perform the feasibility study. Such firms are required to provide a Report and Execution Proposal

based on their Feasibility Study within a stipulated time.

The report and proposal will be evaluated by an expert committee, and the scope of work (SOW) and execution strategy will be finalized thereafter.

### **Second phase:**

In the Second stage , two part bids (technical and commercial) will be invited through Limited tendering floated to only those vendors whose feasibility study was technically and commercially accepted in the first phase with a revised scope of work as derived from the first stage.

Accordingly Expression Of Interest is invited to carry out the HCT up-gradation project from Interested vendors with proven experience of successfully carrying out such upgradation/refurbishment of telescopes with primary mirror larger than 1m mentioning successfully completed Projects and time taken to complete the project along with supporting documents in sealed envelopes addressed to the undersigned.

In the first phase, a two part (Technical and Commercial) bid for carrying out the feasibility study is invited. For a necessary guidelines to prepare the proposal for Phase 1, please refer to Annexure I downloadable from IIA website. ([https://www.iiap.res.in/iao/hct\\_upgrade/Annexure1](https://www.iiap.res.in/iao/hct_upgrade/Annexure1)). The details of the requirement may be seen at the web page of Indian Institute of Astrophysics ([http://www.iiap.res.in/iao/hct\\_upgrade/requirements](http://www.iiap.res.in/iao/hct_upgrade/requirements)). Other details/drawings of the existing system to the techno/qualified vendors for feasibility study would be provided on request.

### **Important dates :**

**last date for submission of the EOI : 13-03-2018 at 15:00 Hrs**

**Opening of the technical Bids : 13-03-2018 at 15:30 Hrs**

**Opening of teh commercial Bids : To be announced later**

Interested tenderers may submit their offers with EMD of INR 1,50,000 (refundable) & Tender fee of INR 500 (non-refundable) only in the form of Demand Draft drawn in favour of Director, Indian Institute of Astrophysics.

The offer should be submitted in sealed envelopes (Technical and Commercial bids separately ) Each envelope should be super scribed mentioning the following

" EOI for HCT up gradation "

Technical Bid / Commercial Bid (as the case be)

Date of opening,:

Addressed to The Director, Indian Institute of Astrophysics, Bangalore-560 034.

Stores & Purchase officer

On behalf of the Director  
Indian Institute of Astrophysics,  
Koramangala, II Block,  
Bangalore, India.

