

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A & 2B, RAJA S C MULLICK ROAD, JADAVPUR, KOLKATA 700032

TENDER NOTICE

NIT no. IACS/ SPEC/ Prof. P.S. Singh/ 2016-17/45 Date 29/09/2016

Sub: Procurement of " Fully diode pumped mode locked Picosecond ND:YAG laser with second harmonic generation for the construction of Sum frequency generation spectrometer "

Indian Association for the Cultivation of Science invites Sealed Tenders for purchase "**Fully diode pumped mode locked Picosecond ND:YAG laser with second harmonic generation for the construction of the Sum frequency generation spectrometer**" to be procured from DST SERB Individual Project. The bids are to be submitted in **Two-Bid pattern i.e. Technical Bid and Price Bid** in two separate sealed covers distinctly marked accordingly and both to be put inside another envelope, which should be sealed and super scribed with **Fully diode pumped mode locked Picosecond ND:YAG laser with second harmonic generation for the construction of the Sum frequency generation spectrometer** ' Tender Notice No., Due date and time of opening. Two bids i.e. Technical Bid and Price Bid should be identical in all respects except that the Technical Bid should have blank space at the places where prices have been quoted in the Price Bid. The bidders may submit bids duly signed in their own letterheads. In case the scheduled date of opening of tender is declared as holiday, the tender will be opened on the next working day at 3.00 P.M. The technical bids will be opened first to evaluate the technical specifications of the equipment and the price bids of the technically qualified companies only will be opened thereafter. Complete tender bids should reach the **Registrar, Indian Association for the Cultivation of Science, 2A & 2B, Raja S C Mullick Road, Jadavpur, Kolkata 700032, West Bengal, India**, on or before the scheduled date & time specified below:-

Venue of Tender:

Tender Notice No.	IACS/ SPEC/ Prof. P.S. Singh/ 2016-17/45 Date 29/09/2016
Last Date and Time of Submission of Tender	28/10/2016 at 3.00 PM
Pre-bid Meeting (date, time & venue)	18.10.2016 at 15:00 hrs at IACS
Date, time and place of opening of (a) Technical part of Tender	(a) 28.10.2016 at 17.00 hrs at IACS
Opening of Price Bid (date, time & venue)	The price bid of only technically qualified bidders will be opened and they will be intimated the date and time of opening at their email id-s. Rest of the bids will stand rejected.
Contact Details	Dr. Prashant Chandra Singh e-mail: sppcs@iacs.res.in

2. PRICE BID: The financial bid indicating item-wise price for the items mentioned in the technical bid should be kept in a separate sealed envelope duly super scribed as "PRICE BID" on the outer cover of the envelope as already detailed above.

(a) The components of the Fully diode pumped mode locked Picosecond ND:YAG laser with second harmonic generation have to be **quoted in dollars/Euros for (imported) on CIF basis.**

(b) **The price bid of only technically qualified bidders will be opened and they will be intimated the date and time of opening at their email id-s.** Rest of the bids will stand rejected.

BID SECURITY:

1. An Account Payee Demand Draft/Pay Order for Rs. 3,00,000/- (Rupees three Lakhs only) drawn in favor of "Indian Association for the Cultivation of Science" is to be furnished along with Technical Bid as Bid Security money (or EMD). Bidders registered with the Central Purchase Organizations, National Small Industries Corporation etc. may be exempted from paying EMD subject to their submission of a copy of valid registration certificate with their Technical Bids, failing which their bids will be rejected.

2. The Demand Draft/ Pay Order for the Bid-Security money should have at least 60 (sixty) days validity period after the opening of the Bids.

3. In the case of non-award of the work, the Bid Security money would be returned to the bidders.

PERFORMANCE SECURITY:

1. An Account Payee Demand Draft/Bank Guarantee of Rs. 6,00,000 (Rupees Six Lakhs Only) drawn in favor of "Indian Association for the Cultivation of Science" is to be furnished by the successful bidder to be awarded the contract, as "Performance Security" money.

2. Performance Security should remain valid for a period of 90 (ninety) days beyond the date of completion of all contractual obligations of the supplier including warranty obligations.

3. Bid Security would be refunded to the successful bidder on receipt of Performance Security

PAYMENT TERMS AND CONDITIONS :

Payments: 90% against delivery and rest 10% on successful installation and satisfactory performance or 100% Letter of Credit

3. TECHNICAL BID:

The laser should have sealed DPSS master oscillator, fully diode pumped regenerative amplifier and diode pumped power amplifier. Air-cooled, excellent pulse duration stability and beam pointing stability, thermo stabilized second harmonic generator, PC control through USB and remote control via keypad with following technical specifications:

Pulse energy @ 1064 nm	: >40 mJ
@ 532 nm	: 18 mJ
Pulse energy stability @ 1064 nm	: <0.5%
@ 532 nm	: <0.8%
Pulse duration	: 28 ps +/-10%
Pulse duration stability	: +/-1%
Maximum pulse repetition rate	: 50 Hz
Polarization	: Linear, vertical, >100:1
Pre-pulse contrast	: >200:1
Triggering mode	: internal/external
Sync out pulse jitter	: <0.1 ns
Sync out pulse delay	: -500...50 ns
Beam divergence	: <0.7 mrad
Beam pointing stability	: <15 urad
Beam diameter	: ~ 6 mm or less
Typically warm -up time	: 10 min.

Power meter with appropriate sensor working in the IR and Visible region should be provided with the Laser system

Laser table of (300cmX150 cm and thickness of 20cm) with passive vibration isolated support with 6 lags should be provided with the laser systems.

(i) Warranty: One year on-site warranty for all parts and labor. The warranty period will commence from the date of certification of successful installation of the equipment.

(ii) Maintenance: The vendor should include the price of annual maintenance contract (AMC) as an option in the price bid.

(iii) Installation and Commissioning: Free of cost at IACS, Kolkata. The vendors are required to give an estimate of the time, space and other facilities required for installation in the technical bid. The vendor shall remain responsible to **demonstrate the Fully diode pumped mode locked Picosecond ND:YAG laser with second harmonic generation.**

(iv) Vendor Eligibility:

- (I) bids must be submitted by OEMs or OEM supported single vendors (one vendor one OEM) only with original authorization certificates from the OEMs. **Vendors should have proven experience in setting up at least five similar systems in the last five years in India.** Proof

- for such experience (installation certificates/user appreciation note) from credible sources should be included in the technical bid.
- (II) Vendor should be responsible along with OEM in providing support for the machines during the warranty period.
 - (III) Vendor should have service engineers stationed in India and should respond to service calls within 24 hours of receiving a notice from IACS. The vendor has to provide contact details of service engineers and its office in India.

Additional Requirements:

(i) **Compliance List:** The vendor must submit a table indicating the compliance of the features of the model of the components being quoted with those given in the indent. In case of non-compliance against a particular item, the vendor should justify that.

(ii) **Training:** Free training on operation, maintenance and troubleshooting of the whole system should be provided to at least 2 persons for a period of one week at the site of installation.

****Please Note: The decision of the Technical Committee on technical competence and eligibility of any technical bid submitted by any vendor would be final and cannot be contested.**

3. GENERAL INSTRUCTIONS:

(i) **Submitting Tender:** The Tender must contain materials related to these specifications and should not contain materials that can overtly or covertly try to canvass for the vendor. The vendors are allowed to deviate from the specifications provided only when such deviations are demonstrated to be technically superior and the same is acceptable to the technical committee.

Additional features in the quoted items which are better than those in the indent – may be highlighted. The technical bid should not have any mention of pricing. The commercial bid should have the pricing for each option separately. Prices should be inclusive of all charges (taxes/duties as applicable, shipping charges, delivery at site, installation etc.) with clearly indicated break-ups. Fax, e-mail Tender will not be accepted. Duplicate Bid document must be submitted in Separate closed cover.

(ii) **Post-sale service:** The vendor must submit the names of the service engineers employed by them who are competent to perform the installation and maintenance along with their contact details in India.

(iii) **Tender updates:** Prospective bidders may please refer to our website <http://www.iacs.res.in>, occasionally for any update on the tender which may appear from time to time. **Interested Vendors should email their interest in Pre-Bid meeting at least a week before the scheduled date.**

(iv) **Ineligible Tenders:** Incomplete and conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof. Tender Notice and tender for “Fully diode pumped mode locked Picosecond ND: YAG laser with second harmonic generation for the construction of the Sum frequency generation spectrometer” should be clearly written on the envelope.

(v) In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.

Registrar (Acting)