

**INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE**

**2A & 2B Raja S.C.Mullick Road Jadavpur, Kolkata 700032**

**Tender Notice No.: BC/DKS/14/50, dated: 05.11.2014**

***Sub: State of art Gene and Particle Delivery System (GPDS)***

Sealed tender in two bids system (**Technical Bid & Financial bid**) is invited from bonafide, resourceful and eligible manufacturers/exclusive distributors for supply, installation and commissioning of **State of Art Gene and Particle Delivery System (GPDS), or “GENE GUN”**

**Necessary accessories.**

Part I (Technical Bid) of the tender should contain technical details and commercial terms and conditions and Part II (Price Bid) should indicate group-wise price as mentioned in the Technical Bid where applicable. The Technical Bid and Price bid are to be submitted in two separately sealed envelopes distinctly marked accordingly and both to be put inside another envelope, which should be sealed and super scribed with tender notice no. and due date. The bidders may submit bids duly signed in their own letterheads. Complete tender bids should reach the office of the **Department of Biological Chemistry, Indian Association for the Cultivation of Science, 2A & 2B Raja S. C. Mullick Road, Jadavpur, Kolkata 700032** or on before the scheduled date & time specified below.

<b>Tender Notice Number</b>	BC/DKS/14/50 dated 05.11.2014
<b>Date and time of Pre-bid meeting</b>	17 <sup>th</sup> November, 2014 at 3-00 P.M.
<b>Last date and time of submitting tender</b>	1 <sup>st</sup> December, 2014 at 12.30 P.M.
<b>Date and time of opening tender</b>	1 <sup>st</sup> December, 2014 at 3-30 P.M.
<b>Place of Opening Tender</b>	at JC Bose Meeting Room
<b>Contact</b>	<b>Email:</b> bcdks @iacs.res.in   <b>Phone:</b> 8902477366

The technical bids will be opened first to evaluate the technical specifications of the equipment.

Thereafter, the Price bids of only technically qualified bidders will be opened. The date of opening the Price Bids will be intimated to the short-listed bidders at their contact addresses.

The rest of the bids will be rejected.

**A). TECHNICAL BID:**

**“Technical Specifications: *Gene and Particle Delivery System (GPDS)*”**

The *GPDS* should be capable of performing following functions.

**a) Functional requirement:**

1. State of the art Transfection technology to deliver DNA, RNA independent of target cell.
2. The gene gun should be capable of delivering **DNA, RNA** and **particles** (size 20 nm to 1000 nm) rapidly in cells (in tissue culture plates), and tissues (Zebrafish embryo).
3. It should be easy to operate, portable and handheld.
4. It should function independent of target cell/tissue type.
5. Compatible with stable and transient transfection.
6. Capable of large DNA delivery.
7. Capable of co-delivery of multiple DNA/RNA/Particles of different size.
8. Delivery of target gene should be free of additional gene or protein.

**b) Technical Specifications and associated consumable list:**

- 1) The GPDS system should include the entire associated accessory, like Helium Hose Assembly, Helium Regulator, Tubing Prep Station, Syringe Kit, Tubing Cutter etc such that the delivery of particles/genes should not require any additional accessory for its functioning.
- 2) The GDPS should be supplied with an optimization Kit Consisting of minimum 0.5 g of 0.5-0.7  $\mu\text{m}$  inert microcarriers, preferably gold, 0.5 g of approximately 1.0  $\mu\text{m}$  of preferably gold microcarriers, 0.25 g 1.6  $\mu\text{m}$  of preferably gold microcarriers, 0.5 g PVP (MW 360,000) for coating , 5 cartridge collection/storage vials, 5 desiccant pellets, 50' Tefzel tubing and Instructions. If the system uses other set of microcarriers, chemicals and tubing Similar quantity should be provided
- 3) Additional resource of magnetic microspheres preferably fluorescent (blue excitation) of size  $\sim 0.5$  micron ( $\sim 0.25$  gm ), and  $\sim 1$  micron ( $\sim 0.25$  gm ) should be supplied.
- 4) The system should be a hand held unit which can be used in the field.

- 5) The system should include appropriate Battery with charger or power supply for operation.
- 6) The system should be used in Experimental conditions like insitu, invitro, invivo and exvivo.
- 7) The operating Pressure Range should be preferably within 10-800 psi, Bigger range will be given preference
- 8) The system should have a Voltage Input of 220-240V and Input Frequency: 50/60Hz
- 9) The System should have a target area of minimum 1 cm<sup>2</sup>
- 10) The system should be compatible with Animal, plant and Bacterial Samples.
- 11) The system should be made up of the materials which are bio-compatible, preferably of following material:
  - External : Super Epoxy or Polycarbonate
  - Cylinder : Acetal
  - Barrel Liner : Ryton
  - O-Rings : Viton
- 12) The System should have a dimensions approximately 20 X 25 cm or smaller and should weigh less than 2 Kg
- 13) Diffuser Screens for uniform delivery of gene and particle should be provided.

**Important notes:**

- i) Vendor should quote rates involved, if any, for the Optional Items/services mentioned under 7 above separately.
- ii) Bidder providing misleading or wrong information will be disqualified
- iii) All technical claims of the Bidder should be supported by product catalogue, public website of the manufacture.
- iv) The Indian Agents desiring to quote on behalf of their foreign principals must have valid registration with the Central Purchase Organization (eg. DGS&D) as provided in Rule 143 of general Financial rules, 2005

**B). FINANCIAL BID:**

The financial bid should be super scribed as “**Finance Bid**” on the outer cover of the envelope.

**1. Price Bid:** The financial bid indicating (item-wise) price for the item(s) mentioned in the technical bid should be kept in a separate sealed envelope duly superscribed as "PRICE BID"

on the outer cover of the envelope as already detailed above. The price bids of only technically qualified bidders will be opened and they will be intimated the date and time of opening of price bids at their email id-(s). Rest of the bids will stand rejected.

**2. Price:** Price to be quoted both on FOB and CIF basis for foreign currency or in Indian currency. Name of the particular port from where our authorized forwarder will lift the consignment must be mentioned clearly with FOB price.

**3. Bid Security (EMD):** An Account Payee Demand Draft for **Rs. 40,000/- (Rupees forty thousand only )** drawn in favour of "Indian Association for the Cultivation of Science" payable at Kolkata is to be furnished by the bidders, as Bid Security money or Earnest Money Deposit (EMD) with the tender.

**4.** The Demand Draft for the Bid-Security money should have at least **45 (forty five)** days validity period after the opening of the Bids.

**5.** In case of non-award of the work the Bid Security money would be returned to the unsuccessful Bidders. Bid security money to the successful bidder will be refunded on receipt of the Performance security money.

**6. Performance Security:**

An Account Payee Demand Draft for an amount of 10% of the order value drawn in favour of "Indian Association for the Cultivation of Science" payable at Kolkata is to be furnished by the successful bidder as Performance security. Performance security money would be released by IACS after a period of 60 days from the date of completion of all contractual obligations of the supplier including warranty obligations. Bid security money will be refunded to successful bidder on receipt of the Performance security money.

**(C) General Instructions:**

**1.** Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.

**2.** "*Gene and Particle Delivery System (GPDS)*" should clearly be written on the envelope.

**3.** At any time prior to the bid due date, IACS may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder during pre-bid meeting, modify the bidding documents. The amendment(s) will be notified on the Institute website only. Prospective bidders are advised to occasionally visit the website ([www.iacs.res.in/tender](http://www.iacs.res.in/tender)) for any amendment.

**4. Payment Terms:** 100 % through letter of Credit; 90% to be released on shipment and balance 10% against successful installation & commissioning subject to submission of performance guarantee.

**5. Warranty:** Equipment should be offered with standard warranty followed by 48 months Annual Maintenance Contract (AMC). The vendor should quote the charges for 48 months AMC. The vendor should also quote for further 5 years AMC after the expiry of initial period of warranty & AMC. Taxes as applicable will be deducted at the time of payment of AMC amount.

**6. Installation/Demonstration /Application Training at site:** Free of cost by the supplier.

**7. User list:** The supplier should provide a list of current users (with contact no, Email address etc) for the quoted item in India and abroad. Preference will be give to suppliers with many installations at reputed research/academic institute in India and abroad.

**8. Service facility:** Supplier should mention their details of service setup and Manpower in Kolkata who are responsible for after sales support. Response time should be within 24 hours.

**9.** The tender submitted shall remain valid at least for three months from the date of opening the tender. Validity beyond three months from the date of opening of the tender shall be by mutual consent.

**10.** The tender should accompany a compliance chart. A technical compliance chart should also be provided in the following format:

**Serial Number Tender Specification of your Extent of compliance offered instrument**

**11.** The rate should be inclusive of all taxes, transportation etc. Nothing extra will be paid in addition to the quoted rate. The taxes, etc. should be shown separately in the Price Bid.

**12.** The model number, make, and a printed literature of the product shall be submitted positively.

**13.** Proposed delivery schedule should be mentioned clearly.

**14.** Manufacturers/exclusive distributors/vendors should have history of supplying this type of instrument to this or other Scientific Organizations.

**15.** Authorized Dealership Certificate is must in case of principal manufacturing company is not quoting directly.

**16.** Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.

**17.** Incomplete tenders will be summarily rejected.

**18.** For any clarification regarding technical specifications, etc. please send your queries to  
**"Dr. Deepak Kumar Sinha: [bedks@iacs.res.in](mailto:bedks@iacs.res.in)"**

**19.** In the event of date being declared a closed holiday for purchaser's office, the due date for submission of bids and opening of technical bids will be the following working day at the appointed time.

**20.** Please note that IACS will not provide any accommodation or expenses to any of the bidders for attending opening of technical bid/price bid

**21. Acceptance of Tender:** IACS authority does not bind itself to accept the lowest tender and reserves the right to reject any or all the tenders received without assigning any reason thereof.

**REGISTRAR**