



अनुवांशिकी संभाग

DIVISION OF GENETICS,

भा. कृ. अ. प. भारतीय कृषि अनुसन्धान संस्थान

ICAR-INDIA AGRICULTURAL RESEARCH INSTITUTE, NEW DELHI - 110012



F.No.GD/SP/45/2018-19/

Dated:

Tender Notice
2018_DARE_407613_1

Sub: Purchase of Gas Chromatograph

Online quotations are invited by the Head, Division of Genetics IARI, New Delhi- from reputed Manufacture/ Dealer/ Supplier in two-bid system (Technical bid & Financial bid) for purchase of following item on behalf of Director ICAR- Indian Agricultural Research Institute, New Delhi. The last date for submission of Bid is **12.12.2018 at 1.00 PM**. The bid will be opened on the **13.12..2018 at 3.00PM** in the Division of Genetics IARI New Delhi-12 by the prescribed committee.

Please visit www.iari.res.in for Details Rules and Regulation and Log on www.eprocure.gov.in for online tender submission.

S. N.	Description of item	Qty.	Earnest Money (Rs.)
1	Gas Chromatograph	one	16000.00

Instructions to the bidder and terms & conditions of tender:

1. The rates quoted shall be valid for a minimum period of 180 days from the last date fixed for submission of bid.
2. The rates quoted in INR shall be free of cost delivery and installation at the **Division/Unit of Genetics, IARI, New Delhi – 110012**. However, equipment quoted in foreign currency must be quoted on FOB as well as in CIP basis
3. Indigenous equipment maybe quoted in INR only. However, imported equipment maybe quoted in foreign currency on FOB basis showing price up to CIF. If firm fails to quote the rates accordingly, the tender will liable to be rejected.
4. In case, LC is opened for purchase of Foreign equipment all charges outside India will be borne by the firm.
5. Custom Duty Exemption Certificate (CDEC) will be issued only when the bid is quoted in foreign currency in case of foreign made items only and meant for IARI
6. Full specifications of the item/article quoted for shall be given in the quotation.
7. If taxes, duties or any other charges over and above the rates quoted leveable, actual percentage of such taxes/duties/other charges should be clearly indicated.
8. EMDF as above should be in the form of D.D./Pay Order/Fixed Deposit Receipt/Bank Guarantee from commercial bank drawn in favour of Director, IARI payable at New Delhi. The original EMD should be submitted offline to the Tender Inviting Authority on or before the last date and time of bid submission. The details of D.D./Pay Order/Fixed Deposit Receipt/Bank Guarantee physically sent, should tally with the details available in the scan copy and the data entered during the bid submission time otherwise the uploaded bid will be rejected.
9. The EMD shall be refunded to the unsuccessful bidders after finalization of the quotation. In case of successful bidder, it can be adjusted towards security deposit which is 5-10% of the order value in the form of D.D./Pay Order/Fixed Deposit

Receipt/Bank Guarantee from commercial bank drawn in favour of Director, IARI payable at New Delhi and shall remain valid for 60 days beyond the date of completion of all contractual obligation of supplier including warranty obligation for the equipment/goods costing Rs. 1.00 lakhs (Rs. One Lakh) or more. However, there would be no performance security deposit for equipment/goods costing less than Rs. 1.00 lakh (Rs. One Lakh).

10. One-year warranty has to be invariable provided on the equipment/items by the firm. In case, there is any variation in the warranty period given in tender while mentioning the specification of the item/equipment, the warranty period shall be the final as given in the specification.
11. Payment will be made by mode of e-payment to the supplier/firm after satisfactory completion of work and receipt of pre-receipt bills triplicate.
12. The Director IARI, New Delhi reserves the right to accept or reject any or all the quotations either in full or in parts without assigning any reason.
13. TIN/VAT/PAN/C.S.T. Nos. Scanned copy of TIN/VAT/PAN/C.S.T. Nos may be attached with the bid.
14. In case, any dispute arising out of this contract shall be subject to the jurisdiction of Indian laws & Court at New Delhi. Sole arbitrator is appointed by the Secretary, ICAR, New Delhi. His decision will be final and binding on both parties (Supplier and Purchaser)
15. The successful bidder has to execute the indented Job/Work as mentioned in the supply order placed with them within the stipulated period as given in the supply order placed by this office failing which 2% per week and maximum of 10% deduction as liquidated damage charges will be made from the bill in case the job is not completed within the given stipulated period.
16. Firms should 3 years' experience in this line, proof should be enclosed.
17. Quotations not complying with the above conditions are liable to be rejected.

(Laxman Singh)
Admin Officer
011-25843811

Copy: to in- charge AKMU to up load at IARI website

Proforma for Technical bid Gas Chromatograph with 384 well capacity (GD/SP/45/2018-19)

Gas Chromatograph with accessories

Specifications:

	<p align="center">Specification of Gas Chromatograph with accessories</p>	<p>Whether Complied With YES/ NO</p>	<p>If yes, please attach Tech literature of the equipment duly printed & clearly specify page No of Bulletin which specifically confirm this</p>
<p>General Features of GC</p>	<ul style="list-style-type: none"> • Fully automated with programmable pneumatic control (digital control) for injector, detector and purge gas. . • Instrument should be compatible to computer and software should be Window 7 or latest. • Basic system with EPC/AFC/PPC control for carrier/detector zone gases. • EPC/ PPC/AFC should provide optimum performance with all types of columns and detectors • All parameters should be stored as a part of method for better analysis reproducibility • System must have touch screen user interface for easy instrument operation • Real-time graphical display of chromatogram • Programmable pneumatic control (PPC) for injector & detector with Twelve PPC zone • Carrier Gas Pneumatic program rates 0-100.0 psi/min/ 0-100.0 mL/min/0-200.0 cm/sec or ballistic • Design of instrument should be in such a way that system should be able to inject gases samples through gas tight syringes and liquid samples through Auto-sampler in single inlet without disturbing tower of auto-sampler or any hardware change. 		
<p>Gas Flow control</p>	<ul style="list-style-type: none"> • Must come standard with programmable pneumatic control • Digital Pneumatic Control for setting column flow with pressure, flow and linear velocity. 		

Inlet configuration and usability	<ul style="list-style-type: none"> • Injectors should be controlled by EPC/PPC/AFC. • Removable glass liner for trapping non-volatile residues. <p>Programmable split/splitless capillary injector- 1 Nos.</p> <ul style="list-style-type: none"> • Temperature-programmable inlet • Operating Temperature range 50 °C to 500 °C in 1 °C increments • Heating rate of 1 °C/min to 200 °C/min or ballistic • Three-ramps temperature program • Large-volume injection of up to 150 µL • PPC pneumatics include automatic control of split vent by split flow or split ratio 		
GC Oven Characteristics	<ul style="list-style-type: none"> • Volume: approximately 10 Litres or more for easy fixing and removing different types/dimension of columns without compromising rate of heating or cooling of oven. • All temperature and time functions should be micro-processor controlled and displayed on the screen, column over-heat protection, should be settable up to 450 °C, set point resolution must be at least 1 °C and cool down time from 250 °C to 50 °C 4.8 min or less • The oven should have excellent temperature control and fast cool down system. • Oven must accommodate up to two 60m × 0.53 mm id capillary columns. • Maximum achievable temperature ramp rate should be 45 °C/min or more • Temperature ramps should be 3 or more. • Time settings: It should be 1 min increments for values 0 to 999 minutes or wider 		
Autosampler	<ul style="list-style-type: none"> • Inbuilt Autosampler with sample vial capacity >100, plus one priority • Vial size - 2ml • Waste and wash vial size - 4 ml • Sampling volume - Capable to inject from 0.1 µl to 50 µl • Sample pre-rinse - Prepares the autosampler syringe in advance of the GC becoming ready 		

	<ul style="list-style-type: none"> Autosampler should be able to inject in both ports without dismantling it and should not be removed from one port to other for injection into other port. 		
Detector	<p>Flame Ionization Detector-1 Nos.</p> <ul style="list-style-type: none"> Operating temperature: 100 °C to 450 °C in 1 °C Sensitivity: > 0.015 coulombs/g C Minimum detectable quantity: < 3 x10⁻¹² g C/sec Octane Linearity: > 10⁷ Makeup gas: Not required 		
Software	Software performing data analyses at least as per DIN/ISO/US-EPA, calibration, blank correction, data import, export, handling and reporting, quality control protocols, computer based training		
Power Supply	<ul style="list-style-type: none"> 220 VAC ±10%, 47 to 53 Hz. 		
Other Requirement	<p><u>Essential Accessories:</u></p> <ol style="list-style-type: none"> H2, N2 and Zero Air Gas cylinders, double stage SS regulators for each cylinder, purification panels with ISI marked regulators. 6KVA On-line UPS with 30 mins back up. System should be supplied with 6 KVA Online branded UPS with 30 min backup along with branded computer of following configuration – <ol style="list-style-type: none"> Intel Pentium processor with 3.8 GHz or better clock speed 512MB RAM, 1 TB Hard Disk, High Color 32 bit at 1024 x 768 SVGA 52x speed CD ROM drive, 1 RJ-45 10/100Base-T Ethernet NIC (network card), 2 RS-232 Serial Port*, 1 Parallel or USB, PS2 style mouse and keyboard. Operating System: Windows 7 Professional 64 bit (SP1) <p>*Additional Serial port is required for accessories like HS.</p> <p>USB to Serial port is not recommended.</p>		

	<p>Warranty: Two years from the date of installation</p> <p>Spares:-</p> <ol style="list-style-type: none"> 1. <u>Gas tight syringes:- 5ul, 25ul, 50ul, 1 ml & 2.5ml.</u> 2. Graphite Ferrule 1/8 x 0.5mm- Qty 10 3. Graphite Ferrule- Qty 20 4. SS Nut –Qty 5 5. Wafer-Ceramic Cutter Qty 10 6. PTFE/Silicone Injector Septa Qty 50 <ul style="list-style-type: none"> • Quoted system should be latest with good after Sales Support and should have ISO 9001 approval. • List of at least 5 system supplied in last one year. • Please provide compliance statement sheet with technical bid and if there is any deviation in above mentioned specifications should be clearly highlighted in remarks. • Anything extra required for installation should be quoted along with instrument. 		
1. Are your registered with TAN, PAN and VAT/CST/LST Deptt., if yes please mentioned all the details and attached copy of the Same.		Yes/No	PAN No. TAN No. VAT No.
2. Have you deposited EMD /- Original EMD is to be submitted to the Admn. Officer, Genetics before closing date of tender (refer condition No. 8)		Yes/No	Amount..... DDNo/FDR/BG No.... Name of Bank.....
3. Have you enclosed latest authorization certificate resting with sufficient validity period from manufacturer/Principal foreign firm		Yes/No	Enclose copy
4. Have you ever been debarred/ Black listed by the Govt. deptt./Court of law for doing any business in India attach self-declaration certificate in this regard		Yes/No	Enclose copy

We certify that Equipment being offered by us under this tender meets all the above requirements. Concealing of any fact regarding specification of equipment being offer will liable to reject our tender. We accept the terms and conditions of the tender indicated there in.

Signature of renderers with office seal