



राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर
(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR
(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

Notice Inviting E-Tender No .: NC-000088-CHE-19-20

GC with FID and autoinjector



NATIONAL INSTITUTE OF SCIENCE EDUCATION & RESEARCH
JATNI CAMPUS, P.O. – BHIMPUR-PADANPUR, VIA-JATNI
KHURDA – 752050, ODISHA, INDIA

**Notice Inviting E-Tender
For**

GC with FID and autoinjector

E- Tenders are invited on behalf of the Director, National Institute of Science Education and Research, Jatni from the manufacturers(Indian or Foreign) and their authorised reseller/Indian agent only for supply & installation of the following items:-

Sl. No.	Name of the Items	Tender No.	Name of Department	Qty. Nos.	Tender Fee in INR
1.	GC with FID and autoinjector	NC-000088-CHE-19-20	School of Chemical Sciences	01 No.	NIL

Sl. No.	Name of the Items	Tender No.	Name of Department	Qty. Nos.	EMD in INR
1.	GC with FID and autoinjector	NC-000088-CHE-19-20	School of Chemical Sciences	01 No.	27000.00

NB: I. PARTIES REGISTERED WITH MSME/NSIC/SSI/DAE AND FOREIGN PARTIES QUOTING DIRECTLY ARE EXEMPTED FROM PAYING EMD.

II. THERE IS NO EXEMPTION FOR TENDER FEE OTHER THAN THE FOREIGN PARTIES QUOTING DIRECTLY.

III. PARTIES REGISTERED WITH MSME/NSIC/SSI/DAE SHOULD HAVE VALID CERTIFICATE FOR THE ITEMS BEING TENDERED WHICH SHOULD REFLECT IN THE CERTIFICATE.

- **Tender Enquiry No** : **NC-000088-CHE-19-20**
- **Last date of submission of E-bid** : 14.10.2019 up to 10.00 A.M
- **Opening of Technical Bid** : 15.10.2019 at 11.00 A.M

The details of general tender terms & conditions can be downloaded from <https://eprocure.gov.in/epublish/app> or Tender Free View Link from NISER Website <https://www.niser.ac.in/content/tender>.

FIC (Stores & Purchase)



TECHNICAL BID
SUPPLY AND INSTALLATION
OF

GC with FID and autoinjector

FOR

NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, JATNI

Notice Inviting E-Tender No. NC-000088-CHE-19-20

Vendor Name				
SL. No.	Item Specification	Quantity	Accepted/Not Accepted (Kindly Mention)	Please specify if any deviation
1	<p>GC with FID and autoinjector Specification:-</p> <p>GC Mainframe:</p> <p>i) Must be able to mount simultaneously: 2 injectors and 2 detectors</p> <p>ii) Must have advanced intelligent self-diagnosis feature. Electrical system, flow control systems and sensors must be fully supported by the operating software.</p> <p>iii) An extensive self-diagnostics function with safety features to prevent unexpected instrument malfunctions</p> <p>iv) Should have overheat protection function</p> <p>v) Future up gradation to Mass Spectrometer (Single or Triple Quadrupole or high resolution Mass Spec of the same manufacturing company)</p> <p>Column Oven:</p> <p>i) Operating temperature range: ambient + 4°C to 450°C</p> <p>ii) Oven temperature set point resolution: 0.1°C</p>	1 No.		

- iii) Oven must support 20 ramps or better
- iv) Maximum achievable temperature ramp rate must be 125°C/min or better
- v) Oven cool down from 450°C to 50°C should happen in less than 4 mins or better
- vi) Temperature stability: < 0.01°C for a 1°C ambient change

Split/Split less Injector:

- i) Split ratio range of 0 to 9000 or better.
- ii) Pressure range- 145Psi
- iii) Maximum operating temperature up to 400°C.
- iv) Efficient carrier gas saver mode built-in to reduce gas consumption during standby without affecting performance.
- v) Must have electronic septum purge flow control to eliminate carry-over.

Data Processing Software:

- i) Chromatography data system for control, acquisition, processing, & reporting software.
- ii) 32-bit software design for Windows XP Professional/2000
- iii) Flexible Reporting as users desires for complete chromatography information Reporting and Complete system control with user friendly help & system diagnostic.
- iv) Built in system suitability as per USP/BP etc.

Auto Injector:

- i) 8 or more vial tray capability and upgradable to 150 nos. vial
- ii) Vial capacity of 1.5/ 2 ml or better.

	<p>iii) Maximum volume: 5µL</p> <p>iv) Minimum volume: 0.01µL</p> <p>Column:</p> <p>i) TG-5MS Capillary Column, 30 mtr. X 0.32 mm ID x 1 µm or equivalent – 01 no.</p> <p>ii) TG-WAXMS Capillary Column, 30 mtr. X 0.32 mm ID x 1 µm or equivalent – 01 no.</p> <p>Flame Ionization Detector (FID)</p> <p>i) Minimum detectable level: ≤1.5 pg C/s or better</p> <p>ii) Temperature range: up to 450°C</p> <p>iii) Dynamic range should be at least 10⁷</p> <p>iv) Sensitivity: >0.03 Coulombs/gC</p> <p>v) Capillary column optimized compatible with 1/8” and 1/16” packed column.</p>			
2	Branded Computer (preferably HP) with latest configuration	1 No.		
3	Laserjet Printer (preferably HP)	1 No.		
4	Hydrogen (H ₂) Cylinder with Gas 47 ltr.	2 Nos		
5	Nitrogen (N ₂) Cylinder with Gas 47 ltr.	2 Nos		
6	Zero Air Cylinder with Gas 47 ltr.	2 Nos		
7	Hydrogen (H ₂) Gas Regulator	1 No.		
8	Nitrogen (N ₂) Gas Regulator	1 No.		

9	Zero Air Gas Regulator	1 No.		
10	On-line 5 KVA UPS with 30 minutes battery backup	1 No.		
11	Gas Purification Panel as required for H ₂ , N ₂ and Zero Air Gases			
12	Instrument table (Compatible by main equipment)	1 No.		
Above item should carry three year onsite full comprehensive free warranty. In case the tendered provide warranty less than 03 year then he has to give justification for lesser period of warranty. Without justification his tender is liable to be rejected.				

Contact for information: (Only E-mail enquiries will be entertained)

For Technical Information :-

Dr. B. Bagh

School of Chemical Sciences

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