



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-000334-BIO-19-20

BIOSAFETY CABINET AND LAMINAR FLOW CABINET



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

Notice Inviting E-Tender
Supply & Installation of
Biosafety Cabinet and Laminar Flow Cabinet

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:-

<i>Sl. No.</i>	<i>Name of the Items</i>	<i>Tender No.</i>	<i>Name of Department</i>	<i>Qty. Nos.</i>	<i>Tender Fee in INR</i>
1.	Fully Microprocessor controlled Class II A2 Type Bio-Safety Cabinet	NC-000334-BIO-19-20	School of Biological Sciences	01 No.	0.00
2.	Fully Microprocessor Controlled Vertical Type Laminar Flow Cabinet with sliding front sash			01 No.	

<i>Sl. No.</i>	<i>Name of the Items</i>	<i>Tender No.</i>	<i>Name of Department</i>	<i>Qty. Nos.</i>	<i>EMD in INR</i>
1.	Fully Microprocessor controlled Class II A2 Type Bio-Safety Cabinet	NC-000334-BIO-19-20	School of Biological Sciences	01 No.	11,500.00
2.	Fully Microprocessor Controlled Vertical Type Laminar Flow Cabinet with sliding front sash			01 No.	

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-000334-BIO-19-20**
- **Last date of submission of E-bid** : 22.10.2019 up to 11.00 A.M
- **Opening of Technical Bid and Financial bid** : 23.10.2019 at 11.30 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>.

Sd/-
FIC (Stores & Purchase)



TECHNICAL BID
Supply & Installation of
Biosafety Cabinet and Laminar Flow Cabinet

FOR

NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, JATNI

Notice Inviting E-Tender No. NC-000334-BIO-19-20

Vendor Name				
SL. No.	Item Specification	Qty.	Accepted/ Not Accepted (Kindly Mention)	Please specify if any deviation
I.	Fully Microprocessor controlled Class II A2 Type Bio-Safety Cabinet	01 No.		
1.	The cabinet should be advanced microprocessor control, which supervises operation of all cabinet functions. Temperature-compensated air velocity sensor monitors both exhaust and downflow. 24-hour clock, UV timer, UV run hour meter, and blower run hour meter should be standard.			
2.	The device should be operable on 220-230V/50-60Hz.			
3.	The cabinet internal dimension should be around 1220 x 580 x 660 mm (w x d x h).			
4.	There should be programmable PIN, which restricts unauthorized cabinet access.			
5.	The cabinet should have an energy efficient DC blower motor with night set back mode facility.			
6.	The cabinet should have long life DUAL ULPA/HEPA Filter for supply and exhaust (per IEST-RP-CC001.3) with 99.999% efficiency for particle size 0.1 to 0.3 microns.			
7.	Should have a raised armrest to elevate the operators arms to prevent inflow grille blockage for work safety.			
8.	To maximize longevity of the device, the work tray should be made of single piece stainless steel type 304, with 4B finish.			
9.	Programmable automatic UV light timer should simplify operation and extend UV light life and maximize energy saving.			

10.	The Cabinet outer surface should have an antimicrobial coating for minimizing contamination.			
11.	The controller should include soft touch keypad controls with LCD display of air flow velocity.			
12.	The cabinet should have built-in warm, white, electronically ballasted zero flicker and instant start 5000K lightening to provide excellent illumination of the work zone.			
13.	The construction of cabinet should be electrogalvanized steel including stand also.			
14.	Inflow velocity should be around 0.53m/s			
15.	Instant start fluorescent lamp intensity should be around 1200 lux			
16.	The sound emission of the device should be less than 63 dBA			
17.	There should be UV protected sliding front sash which can be fully opened to insert and remove large instruments.			
18.	The cabinet should come with following accessories: UV lamp, minimum two nos electrical outlet sockets, and SS movable stand with wheels & brakes for easy movement.			
19.	The device should have an audio or visual alarms in case of any unsafe cabinet condition such as sash opening or hardware failure.			
20.	The offered model should have been installed in atleast 10 state/ central govt. institution/research centers situated in the eastern India.			
21.	Warranty should be atleast 2 years or more.			
22.	The device should have compliance with the following International Standard Certificates for the –			
a)	Biocabinet: NSF/ANSI 49, USA ; EN 12469, Europe.			
b)	Air Quality: ISO1644.1, Class 3, Worldwide; JIS B9920, Class3 Japan; JIS BS5295, Class3, Japan.			
c)	Filtration: EN 1822 (H14), Europe; IEST-RP-CC001.3, USA; IEST-RP-CC007, USA; EST-RP-CC034.1, USA.			
d)	Electrical Safety: IEC61010, Worldwide; EN-61010, Europe, UL-C-61010-1,USA.			

II.	Fully Microprocessor Controlled Vertical Type Laminar Flow Cabinet with sliding front sash	01 No.		
1.	The device should be a fully microprocessor-controlled system with soft touch controls for blower, UV etc			
2.	The device should be Operable on 230V/50 Hz.			
3.	Internal Dimension should be around 1270 x 544 x 570 mm [W x D x H]			
4.	The device should have temperature compensated air velocity sensor and real time display for airflow velocity.			
5.	The laminar flow should have permanently lubricated external rotor type blower for high performance and low vibration and noise.			
6.	Should have a UV protected sliding front window.			
7.	Laminar Flow Cabinets should be equipped with HEPA/ULPA filters for superior product protection.			
8.	The cabinet should have one piece formed stainless steel work surface with a raised front edge for operator's comfort.			
9.	The Cabinet should be built of 304 grade Stainless steel side walls and worktop with a complete stainless steel interior.			
10.	Outer body of the cabinet should be made by electro galvanised steel with antimicrobial coating for automatic surface decontamination in normal light within 24 hrs.			
11.	Air Flow Velocity should be around 0.30 m/s			
12.	Noise Level should be around 61 dBA			
13.	Pre-filter: Disposable and non-washable polyester fibres with 85% arrestance /EU3 rated			
14.	Should be built-in warm white, zero flicker electronically ballasted 5000 K with light intensity around 800 lux.			
15.	The system should have complete with electrical sockets, minimum one number UV lamp.			
16.	The device should have an antimicrobial coated SS support stand with caster wheels & front brakes for easy movement.			
17.	The offered model should have been installed in atleast 10 state/ central govt. institution/research centers situated in the eastern India.			

18.	Warranty should be atleast 2 years or more.			
19.	The device should have compliance with the following International Standard Certificates for the –			
a)	Biocabinet: AS 1386.5, Australia, IEST-RP-CC002.2, worldwide.			
b)	Air Quality: ISO 14644.1, Class 4, Worldwide; IEST-G-CC1001, Worldwide; IEST-G-CC1002, Worldwide.			
c)	Filtration: EN-1822 (H13), Europe, IEST-RP-CC001.3, Worldwide IEST-RP- CC007.1, Worldwide, IEST-RP-CC034.1, Worldwide.			
d)	Electrical Safety: UL 61010-1, USA, CAN/CSA-22.2, No.61010-1, EN 61010- 1, Europe IEC 61010-1, Worldwide.			
III.	Above item should carry <i>Two years onsite full comprehensive free warranty</i> . In case the tendered provide warranty less than 02 years 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. Saleem Mohammed

School of Biological Sciences

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Sd/-

INDENTING OFFICER