14.	Compact design:Takes up less space than competitive units.			
15.	The sonicator should have the following certifications: ISO 9001: 2008.			
16.	The sonicator should be compliant with the following EC directives: EC Low Voltage Directive (73/23/EEC) EC Electromagnetic Compatibility Directive (89/336/EEC).			
(III)	Above item should carry One year onsite full comprehensive free warranty. In case the tenderer provide warranty less than One 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. Saleem Mohammed
School of Biological Sciences
E-Mail Saleem Mohammed <saleem@niser.ac.in>

Sd/-
INDENTING OFFICER

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-000279-BIO-19-20

-86˚C Deep Freezer and Ultrasonicator

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

Notice Inviting E-Tender
For
Supply & Installation of
-86°C Deep Freezer and Ultrasonicator

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.	-86°C Deep Freezer	NC-000279-BIO-19-20	School of Biological Sciences	1 No.	**0.00**
2.	Ultrasonicator			1 No.	

Sl. No.	*Name of the Items*	*Tender No.*	*Name of Department*	*Qty. Nos.*	*EMD in INR*
1.	-86°C Deep Freezer	NC-000279-BIO-19-20	School of Biological Sciences	1 No.	**19,000.00**
2.	Ultrasonicator			1 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-000279-BIO-19-20**
- **Last date of submission of E-bid** **:** 16.10.2019 up to 11.00 A.M
- **Opening of Technical & Financial Bid** **:** 17.10.2019 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
-86°C Deep Freezer and Ultrasonicator

FOR

NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, JATNI

Notice Inviting E-Tender No. NC-000279-BIO-19-20

Vendor Name				
SL. No.	**Item Specification**	**Quantity**	**Accepted/Not Accepted (Kindly Mention)**	**Please specify if any deviation**
(I)	**-86°C Deep Freezer**	**1 No.**		
1.	Upright ultra-low freezer should have an Internal Dimension less than (WxDxH) of 65 x 62 x 140 cm and an external dimension less than 80 x 87 x 200 cm.			
2.	Freezer should have an "effective" capacity: 500-550 Liters.			
3.	Freezer should have a programmable operating Temperature range from -50°C to -86°C with 1°C increment.			
4.	Maximum cooling performance: -86°C (at ambient temperature 30°C).			
5.	The freezer should have two compressors with highly regulated refrigeration circuit for high stage compressor.			
6.	The freezers should have the regulated ON-OFF power cycles for improved reduction in power consumption by 30%			
7.	The freezer should be built using polyurethane as well as a thin Vacuum insulation panel having a thickness of less than 80mm to accommodate larger effective volume.			

8.	The freezer should have a minimum of 2 insulated inner doors.			
9.	The freezer should be equipped with the following alarms: alarms for high/low temperatures, door ajar, power failure alarm and part replacement notification.			
10.	The freezer should be able to pull down the temperature from ambient temperature to -86ºC within 8 hours.			
11.	The freezer should have a rugged, one-handed outer door latch that allows a padlock to be attached.			
12.	The freezer should have Head/eye level digital display for easy operation.			
13.	The freezer should possess the following alarms: High temperature, Door ajar, Power failure, Remote alarm contact, Part replacement notification, Fan lock alarm, Refrigeration circuit abnormal alarm.			
14.	Refrigeration system must contain two hermetic compressors 1100W.			
15.	Power consumption should be less than 0.75Kw / Hour.			
16.	The operational noise of the freezer should not exceed 56 dB and preferably be as low as possible.			
17.	The condenser filter should be situated on the front panel for easy replacement and cleaning of the filter.			
18.	The freezer should have a highly efficient Pull-up and pull-down characteristics for proper and efficient maintenance of samples.			
19.	The freezer should be an imported instrument with all below certifications: • Should be a certified Class IIa Medical device for storage of DNA, cell lines, plasma and stem cells etc. • Quality management system: ISO9001 • Medical Device Management System: ISO13485			

	• Enviromental Management System:ISO14001			
20.	Two inner insulated door for proper maintenance of samples when the outer door is opened and inner doors can be easily removable for cleaning and defrosting.			
21.	Freezer should hold upto 350 boxes (2 inch) or 224 boxes (3 inches).			
22.	Freezer should have the option for liquid N_2 and liquid CO_2 based back up.			
(II)	**Ultrasonicator**	**1 No.**		
1.	Frequency: 20Khz			
2.	Power rating: 125 watts			
3.	Programmability: 10 memories plus sequencing			
4.	Programmable timer: 10 hours			
5.	Adjustable pulse on/off: 1 seconds to 1 minute			
6.	Must include: Generator, converter,1/8" probe for 500ul to 15ml volume samples, Power cable, converter cable, wrench set			
7.	Programmable operation: Set time and amplitude for hands free operation			
8.	Pulse mode: Prevent heat buildup in temperature sensitive samples			
9.	Digital amplitude / intensity control: Output intensity can be set from 20-100%			
10.	Elapsed time indicator that displays duration of sonication.			
11.	Display of wattage and joules: Real-time energy monitoring.			
12.	Overload protection: Prevents damage to circuitry if a fault occurs.			
13.	RoHS compliant: Uses lead free components.			

14.	Compact design:Takes up less space than competitive units.			
15.	The sonicator should have the following certifications: ISO 9001: 2008.			
16.	The sonicator should be compliant with the following EC directives: • EC Low Voltage Directive (73/23/EEC) • EC Electromagnetic Compatibility Directive (89/336/EEC).			
(III)	**Above item should carry One year onsite full comprehensive free warranty. In case the tendered provide warranty less than One year then he has to give justification for lesser period of warranty. Without justification his tender is liable to be rejected.**			

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