

**ICMR-National Institute of Cholera & Enteric Diseases
P-33, C.I.T. Road, Scheme –XM, Beliaghata
Kolkata – 700 010**

AMENDMENT

Date : 10.11.2017

**New date of submission of Bid: 20.11.2017 (upto 1:30 PM).
New date of opening of Bid: 20.11.2017 (3:00 PM).**

D-2/ Equipment 2017-18 (3)

NAME : NANODROP/MICRO UV SPECTROPHOTOMETER

QUANTITY : 2 (TWO)

Amended Specifications

1. Minimal sample consumptions: Should require ~1.0 µL of sample for measurement and samples may be recovered.
2. Simplicity: Plug-in and measure the sample (no software installation should be required).
3. Downstream application success: Accurate concentration and full spectral data (200 or less to 800 nm or more)
4. Productivity: Should eliminate need for dilutions, fast measurements (~5 seconds), Auto-Blank and Auto-Measure features.
5. Benchtop space: should require small space and no external computer.
6. Core application for quantification and purity: assessment of DNA, RNA or protein samples. Others: UV-Vis spectral analysis, enzyme kinetics, gold nanoparticles.
7. Instrument Control - Built-in touchscreen.
8. Limit of Detection dsDNA: 2.0 ng/µL
9. Light Source: Xenon flash lamp (at least 2-year warranty)
10. Detector CMOS or CCD photodiodes
12. Pathlength: 0.030 to 1.0 mm, auto-ranging
13. Power Supply : 220 VAC, 50Hz.
16. 3 Year Comprehensive Warranty +2 year AMC for the system
17. Documents of International Certification to be provided
18. The vendor is expected to have full-fledged service set-up in Kolkata.
19. List of installations of the quoted model within last three years should be provided.
20. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.
21. Compliance certificates should be included

D-2/ Equipment 2017-18 (11)

Name : BIOLOGICAL SAFETY CABINET

Quantity : 3 (THREE)

Amended Specifications

1. The biological safety cabinet should be of Class II, Type A2.
2. Should be certified from any Internationally reputed independent accredited agency such as NSF, EN 12469 , TUV Nord (Germany), HPA (UK) or equivalent for complete safety.
3. Interior dimensions (10% variation is acceptable): Should be about 3ft working space.
4. Should come with autoclavable stainless steel work tray, (preferably in multiple pieces for easy handling), switchable fluorescent lamp and a suitable Floor stand on castors.
5. Air flow direction: Vertical Laminar Flow & Air intake across front opening. $\approx 30\%$ of the air volume to be exhausted as sterile air back into the environment and $\approx 70\%$ of the air recirculated inside the work area.
6. Filter: Two High performance particle air filter (HEPA) or equivalent, one for supply and one for exhaust, with at least filtering efficiency 99.95% Most penetrating Particle Sizes (MPPS), for 0.1-0.3 micron size.
7. Efficient motor technology, preferably DC, to ensure lower levels of energy consumption and heat emission
8. The motor must automatically adjust the airflow speed to ensure continuous safe working conditions.
9. It should have Independent supply and exhaust blowers automate balancing of downflow and inflow/exhaust velocity to ensure continuous safe working conditions.
10. Control Panel and Performance monitor: Display inflow / downflow velocity, hours of use of the HEPA filters to monitor HEPA Filter quality.
11. The UV light should be programmable to shut off automatically.
12. The cabinet noise level must be approx. 55 ± 5 dBa.
13. Should have drain pan/ exhaust filters to ensure quick trapping of contaminants.
14. In built Access ports (23 mm) 4 (2 on each side) should be available.
15. Electrical supply: 230 VAC, 50 Hz.
16. The Biosafety cabinet should come with the compatible voltage stabilizer.
17. Should include Spare UV light (One), Fluorescent light (one) and valve for combustible gas (One)
18. Should come with 5 year comprehensive warranty.
19. The vendor must have full-fledged service set-up in Kolkata.
20. List of installations of the quoted model within last three years should be provided.
21. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.
22. Compliance certificates should be included

**** Other terms & conditions and specifications will remain unchanged.**

**Administrative Officer
for Director**