



West Bengal University of Technology

Tender Form Equipments

Notice No : BIO/FO/12-13/37

Date of Issue : 22nd March, 2013

D.D. No. for the Tender Price :

**Address:
BF-142, Sector-I,
Salt Lake City,
Kolkata-700064**

**Tele-Fax No:
(033) 2334-1034**

**Phone No.:
(033) 2321-1345**

Tender Paper for Equipments

Ref: Tender Notice No. **BIO/FO/12-13/37** dated: 22nd March, 2013

a) Name & Address of the Firm:

b) Telephone No:

c) Mobile No.:

d) Fax No:

2. Name of the items for which the Firm is interested:

3. Name of the Proprietors/Partners/Directors etc:

4. Trade License No (With Photocopy):

5. VAT License No:

6. Service Tax Registration No (With Photocopy):

7. Additional Information if the party wants to include:

8. Copies of Testimonials/credentials/certificates regarding services/experience etc:

Signature with Stamp

Please give sealed quotation for the following Equipments clearly superscribing the tender notice number on the envelope.

Tender Specifications Specifications of Photocopier

1. Should be multifunctional i.e must be able to copying, printing and Scanning.
2. Maximum original size should be A3.
3. Copy sizes should be Cassette: A5R – A3 Stack Bypass: A3-A6
4. Resolution should be Scanning: 600dpi x 600dpi
Copying: 1200dpi equivalent x 600 dpi
Printing: 2400dpi equivalent x 600dpi
256 gradations
5. Copy speed/print speed should be A4: 22ppm , A3: 14ppm
6. First copy time : less than 4.9sec.
7. Warm up time 30 sec max (10 sec max from sleep mode)
8. Multiple copies/print : 1-999
9. Duplexing : Standard automatic stackless
10. Paper weight :Cassette: 64 to 80gsm, Stack Bypass: 64 to 128gsm, Cassette: Universal: A5R to A3
11. Paper Capacity : Standard: 550 sheets x 2 cassettes (1100 sheets)
Multi Stack Bypass: 50 sheets (80gsm)
Optional: 550 sheets x 2 cassettes (1100 sheets)
Side paper deck: 2500 sheets
Max paper capacity: 4750 sheets
12. CPU : 300Mhz
13. Memory : 256Mb (Max: 512Mb)
14. Hard disc drive : 20GB
15. Interface : Ethernet (100Base-TX/10-Base-T)
16. Power supply : 230V/6A/50Hz

Specifications of Realtime PCR

1. Compact, latest, high throughput and fast on line Real-Time PCR system for qualitative and quantitative detection of nucleic acids, mutation screening and SNP analysis.
2. Real time PCR with block of 96 x 0.2 ml tubes or plate to Run typical 0.2ml tubes, strips, and plates.
3. Should have 3 filtered LEDs as an excitation source with 3 filtered Photodiodes for detection.
4. Should have a gradient capacity with Dynamic ramping.
5. Detection of 2 different fluorescent reporters in the same tube.
6. Should be capable of Detecting FAM/Sybr Green, and VIC, HEX, TET, CAL Fluor, Gold 540 etc.
7. Maximum Ramping speed : 4.4 °C / 5°C per sec
8. Should have 6 Peltier Cooling & Heating for uniform temp control
9. Should have one channel dedicated for FRET experiments
10. Should have a mass reduced honeycomb block to offer better average ramp rate and 10 sec of settling time.
11. Excitation Emission range: 450- 580nm
12. No internal reference dye should be required. True 2 Color Multiplexing with use of 2 different flourophores without the need of addition of any internal reference dye,
13. Dynamic range of 9 orders or higher.
14. Open system capable of running various chemistries so that Different chemistries using

TaqMan, Molecular Beacon, SYBR green etc. all can be performed.

15. Temperature range 06 - 100OC with accuracy of ± 0.2 OC and uniformity of ± 0.4 OC within 10 sec of arrival at 90 OC
16. Sample volume should be 1-50 ul
17. Should have built in data analysis modules with advance features like well highlighting, QC flags and custom data view assist with quick analysis.
18. Should be capable to perform Automatic allelic discrimination by end point fluorescence or threshold cycle.
19. Should be capable to perform Gene expression analysis by relative quantity or normalized expression.
20. Should have mode for Melt curve analysis and should be compatible for HRM applications.
21. Comparison of upto 5000 Ct values from different data files should be possible
22. Should have the feature of Email notification with data file after run completion.
23. Software should have express load feature which allows entry of data after experiment.
24. Should be Licensed for Research & IVD applications.
25. System should be compliant with the MIQE Guidelines
26. System should provide an additional qbase plus software license which is RDML compliant
27. Parties may even highlight further on specialized features, if any, on their product for necessary judgment.

General conditions:

1. **The tenderers are required to deposit the tender forms along with relevant papers (mentioned in the form) in two sealed covers mentioning financial bid and technical bid separately.**
2. The University reserves the right to accept or reject any tender without showing any reason.
3. Tender for providing the previous work experience list mentioned in the notice may be submitted in full or in part.
4. Tender fee of Rs. 200/- (non refundable) has to be deposited along with the tender papers.
5. All payments should be made through demand drafts in favour of the 'West Bengal University of Technology' payable at Kolkata.
6. The last date of receiving of tender paper in the office of the Finance Officer is **March 25, 2013 before noon.** Opening of tender shall be announced shortly.
7. Incomplete tender shall be summarily rejected.
8. Subcontracting in any form will not be entitled by the University.
9. All legal disputes shall be subject to jurisdiction of Calcutta High Court.
