



भारतीय प्रौद्योगिकी संस्थान कानपुर
Indian Institute of Technology Kanpur

Dr. Thiruvancheril G. Gopakumar
Assistant Professor
Department of Chemistry, IIT Kanpur
Kanpur 208016
UP, India
☎ +91 (0)5122596830
e-mail: gopan@iitk.ac.in
URL: <http://home.iitk.ac.in/~gopan/index.htm>

Department office:
☎ +91 (0)512259 7637
☎ +91 (0)512259 6806

16.06.2018

Inquiry No. **IITK/CHM/TGG/2018/001**

Extended last date: 26th June, 2018 till 1:00 PM

Sub.: Request for quotation for **“AFM tips for tapping mode and force modulation experiments”**

Dear Sir/Madam

Kindly send us sealed quotations (technical and financial together) for the following items. Quotations should be addressed to **Dr. Thiruvancheril G. Gopakumar, Department of Chemistry, IIT Kanpur 208016, India**, and must reach on or before 26th June, 2018 till 1:00 PM.

Thanking you

Thiruvancheril G. Gopakumar

Specifications for AFM tips

1) High frequency tapping mode AFM tip with Al reflect coating: Pack of 10 x 2

Material: highly doped silicon

Al coating: on detector side (~ 30 nm or greater)

Tip radius of curvature < 10 nm

Tip height: 15 +/- 2 µm

Q-factor: High mechanical Q-factor

Compatible: Agilent AFM 5500

Resonance Frequency: 310 +/- 20 kHz

Force Constant: 40 +/- 5 N/m

2) High frequency tapping mode AFM tip with gold reflect coating: Pack of 10 x 1

Material: highly doped silicon

Gold coating: on detector side

Tip radius of curvature < 10 nm

Tip height: 15 +/- 2 µm

Q-factor: High mechanical Q-factor

Compatible: Agilent AFM 5500

Resonance Frequency: 310 +/- 20 kHz

Force Constant: 40 +/- 5 N/m

3) Force modulation AFM tip with Al reflect coating: Pack of 10 x 1

Material: highly doped silicon

Al coating: on detector side (~ 30 nm or greater)

Tip radius of curvature < 10 nm

Tip height: 15 +/- 2 µm

Q-factor: High mechanical Q-factor

Compatible: Agilent AFM 5500

Resonance Frequency: 75 +/- 5 kHz

Force Constant: 2 +/- 1 N/m

4) Force modulation AFM tip with gold coating: Pack of 10 x 1

Material: highly doped silicon

Gold coating: on detector side

Tip radius of curvature < 10 nm

Tip height: 15 +/- 2 µm

Q-factor: High mechanical Q-factor

Compatible: Agilent AFM 5500

Resonance Frequency: 75 +/- 5 kHz

Force Constant: 2 +/- 1 N/m

Terms and Conditions:

1. Price should be CIP Kanpur