

**Department of Optoelectronics, University of Kerala, Kariavattom,  
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**Quotation Notice**

OPTO/P-17/2016-17

Quotations are invited for the up-gradation of existing RF Magnetron Sputtering unit (HHV 1866 make year- 2006) incorporating the facility for admitting of Nitrogen and Oxygen gases with the help of Mass Flow Controller and accessories as detailed below

1. Mass Flow Controller (Make: Bronkhrost. Alicat), one for Nitrogen and one for Oxygen
2. Flow rate : 2-100 SCCM
3. Inlet pressure : 2 Bar.
4. Out let Pressure : -6 Vacuum.
5. Output : 0-10 V
6. Input : 24 VDC with power supply (230AC-24VDC).
7. SS gas line : 1/4 "VCR
8. Length of SS line : 3 Mtr.
9. Pipeline and fittings : Swagelok make.
10. Line inlet filter, manual valve and solenoid valve required.
11. Solenoid valve : 24VDC

Warranty: 1 year


Note: For the exemption of Excise duty, Excise duty certificate will be provided at the time of shipment.

1. MFC should be incorporated with in RF sputtering system suitably connect with Sputtering chamber 25 mm port with vacuum seal at -6 range.
2. SS line should be routed without interfere inside the sputtering system.
3. Supplier should be demonstrated all the process.
4. Supplier should be provided pipeline system to gas cylinder with SS pipe.
5. The cost should include installation and demonstration

The firms who wish to supply the items are requested to submit the quotation in sealed cover to the undersigned on or before 20.2.2017.

07.02.2017



  
Professor & Head

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