DEPARTMENT OF ENGINEERING DESIGN
INDIAN INSTITUTE OF TECHNOLOGY IIT MADRAS

Limited Tender for supply of "Noninverted Industrial Reflected and Transmitted illumination Microscope with Flurosence, DIC and Camera Attachments for Live Cell Imaging. "

Tender No: EDD/TUHI/2017-2018/10/001

Date: 24.10.2017 & Due Date: 07.11.2017 @ Time 4.00 pm (Indian Standard Time)

Dear Sir/ Madam,

1. Quotations are invited in duplicated for the various item shown below over leaf/enclosed list.
2. The quotations are to be two parts – **One Technical and Commercial offer:** The two parts of the offer are to be clearly marked on the envelopes. The two parts of the offer in separate envelopes must be enclosed in the bigger envelope duly sealed and super scribed with reference number and date and due date must be addressed to the under signed so as to reach him on or before the due date stipulated above.
3. The quotations should be valid for (60) sixty days from the due date and period of delivery required should be clearly indicated.
4. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price .If so please send copy of the RC. (Please note that we are not Direct Demanding Officers).
5. Relevant Literature pertaining to the items quoted with full specifications. (and drawings if any) should be sent along with quotations, wherever applicable. Samples if called should be submitted free of charges and collected back at the supplier's expenses.
6. **Local firms**: Quotations should be for free delivery to this Institute. If quotations are for Ex – Godown delivery charges be indicated separately.
7. **Firms outside Chennai:** Quotations should be for F.O.R Chennai / F.O.B. Chennai / CIF Chennai (Including Insurance and Freight Charges). If Ex-Works, Packing, forwarding and freight charges must be indicated.
8. The rate of GST and the percentage of such taxes legally leviable and intended to be claimed should be distinctly shown along with price quoted. If this is not indicated no such claim will be admitted at any stage.
9. IIT Madras is exempt from IGST and import and is eligible for concessional rate of customs duty. Necessary certificate will be issued on demand.
10. Goods should be **supplied** by **carriage paid and insured**.
11. Goods shall not be supplied **without an official supply order.**
12. **Payment**: Every short effort will be made to make payment within 30 days from the date of bill/acceptance of goods whichever is later.
13. The Guarantee period of the item may be indicated clearly.
14. **Acceptance and Rejection**:- IITM has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
15. **The limited tender was posted in our institute web site also. (tender@iitm.ac.in) and also up loaded in CPP Portal.**
16. Any quotations received after the deadline prescribed above will not be accepted. The quotation (duly signed hard-copy) should be sent to the following address.

Dr.TUHIN SUBHRA SANTRA
Assistant Professor
Dept of Engineering Design
IIT Madras
Chennai-36
Ph.no: 044 2257 4747
044 2257 5630

Tuhin Subhra Santra

PROJECT CO-ORDINATOR
Department of Engineering Design
Indian Institute of Technology Madras
Chennai - 600 036.

1) **Noninverted Industrial Reflected and Transmitted illumination Microscope with Flurosence, DIC and Camera Attachments For Live Cell Imaging**

Item	SI.No	Parameters	Specification
Noninverted Reflected & Transmitted Illumination Microscope With Flurosence, DIC and Camera Attchments	1	Basic Microscope	Trinocullar head microscope inter-pupillary distance 55 – 60 mm Sample height ~35- 38 mm (max)
	2	Stage (Mechanical)	Double layer mechanical stage with X/Y co-axial adjustment. 6 x 4 stage stroke ≥ 150 x 100 mm with glass plate
	3	Eye piece 10×, F.N &focusable F.N (Field number)	≥ 20
	4	Nosepiece Position	≥ 6
	5	Objectives	Plan Flour (Semi-apochromat) Universal Plan Flour 5 X — ≥ 0.15 NA — ≥ 18.0 mm W.D 10 X — ≥ 0.30 NA — ≥ 15.0 mm W.D 20 X — ≥ 0.45 NA — ≥ 4.5 mm W.D Apochromat Bright Field / Dark Field 50 X — ≥ 0.8 NA — ≥ 2.0 mm W.D 100 X — ≥ 0.9 NA — ≥ 2.0 mm W.D
	6	Illuminator	Illuminator with bright field, dark field, polarizing fluorescence and DIC capacity. Both reflected and transmitted modes 12 V, 100 W halogen lamp for both reflected and transmitted with at least 2 years service life.
	7	Condenser	LWD achromat condenser
	8	DIC attachmt (for all objectives)	5 X, 10 X, 20 X, 50 X and 100 X
	9	Filter cubes	UV, 330-380 BP B, 450-490 BP G, 510-560 BP Cy, 620-660 BP
	10	Epi – Fluorescence	Metal halide lamphouse with 2000 hr or more life time and with 120 / 130 watts intensity
	11	Colour CMOS camera	≥ 16 Mega pixel Max. frame rate ≥ 40 fps with 1636 x 1088 Max recordable pixels: ≥ 4500 x 3200
	12	Image analysis software	Documentation software, measurement acquisition, 3 D capability image acquisition
	13	Computer specification	i5 ; 1 TB hard disk; 4 GB RAM; 24'' monitor

Tuhin Singh Sahu
PROJECT CO-ORDINATOR
Department of Engineering Design
Indian Institute of Technology Madras
Chennai - 600 036.