



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008 (ODISHA)**

An Institute of National Importance under Ministry of HRD, GOI

NOTICE INVITING TENDER

Tender Notification No: NITR/PW-SR/CH/2019/141

Dated: 07/09/2019

The National Institute of Technology, Rourkela invites bids from the eligible bidders for procurement of **Fluorescence inverted Microscope for bioanalysis 10 – 100 X; Three fluorescence color**, at NIT Rourkela.

Last date of Submission of Bid : 14/10/2019 at 11:00 AM

Date of opening of Techno-commercial Bid : 15/10/2019 at 11:00 AM

For Details: http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx

Contact: Prof. Biswajit Saha, CH; Ph: 0661-246-2252

Email: sahab@nitrkl.ac.in

Bidding through: <https://eprocure.gov.in/eprocure/app>

**sd/-
REGISTRAR**



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008, ODISHA**

(OPEN TENDER NOTICE NO: NITR/PW-SR/CH/2019/141

dated: 07/09/2019)

(Procurement of Fluorescence inverted Microscope for bio analysis 10 – 100 X; Three fluorescence color, at NIT Rourkela.)

Sl. No.	Description of Goods/Service	Quantity
1.	Fluorescence inverted Microscope for bioanalysis 10 – 100 X; Three fluorescence color	01

- Quantity required** : **As mentioned above (All information provided in technical specification in Annexure I)**
- Delivery** : Within **90 days** from the date of purchase order
- Last date of Submission of Bid** : **14/10/2019 at 11:00 AM**
- Opening date of techno-commercial Bid** : **15/10/2019 at 11:00 AM**
- The firm should not have been black listed at any time.
- The submission of following bids by the tenderer should be through <https://eprocure.gov.in/eprocure/app> . Please follow the guidelines as per the portal.

Fluorescence inverted Microscope for bioanalysis 10 – 100 X; Three fluorescence color
(Open Tender Notice No: - NITR/PW-SR/CH/2019/141 dated: - 07/09/2019; Due on 14/10/2019 at 11:00 AM

- Liquidated damage clause will be charged for any delay in supply of goods.
- The validity of the tender shall be **120 days** from the date of opening of techno-commercial bids.
- Detailed advertisement including all tender documents is also available in our website at http://nitrl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx
- NIT reserves the right to qualify or deny prequalification of any or all applicants without assigning any reasons.

(REGISTRAR)
NIT, Rourkela
Fax No- 0661-2462022
Ph. No -0661-2462021

Detail specification of Fluorescence inverted Microscope for bioanalysis 10 – 100 X; Three fluorescence color

MICROSCOPY BODY ON/OFF SWITCH SHOULD BE IN FRONT OF THE BODY WITH **100:0/0:100 CAMERA PORT WITH 0.7X RELAY LENS SHOULD BE PLACED AT SIDE OF MICROSCOPE BODY FOR EASE OF USE. SYSTEM SHOULD BE UPGRADABLE TO PSEUDO THREE-DIMENSIONAL OBSERVATION OF THICK SAMPLES WITH BOTH GLASS & PLASTICS HOLDERS.**

MAGNIFICATION 100X-400X FOR OBSERVATION.

OPTICAL SYSTEM INFINITY OPTICAL SYSTEM.

EYEPIECE TUBE BINOCULAR TUBE WITH 45° INCLINATION ANGLE **F.O.V. 22MM.**

EYEPIECE LENS 10X (2PCS) WITH **BOTH SIDE DIOPTRER ADJUSTMENT F.O.V. 22MM OR BETTER).**INTERPUPILARY DISTANCE: 50-75MM

PHASE OBJECTIVES ACHROMAT 10X PHASE N.A.0.25, W.D.5.2MM
ACHROMAT 20X PHASE N.A.0.4, W.D. 3.1MM.
PLAN FLUOR ELWD 40X N.A.0.6, W.D.3.6-2.8MM
ACHROMAT ELWD 40X PHASE N.A. 0.55 W.D. 2.1MM
PLAN FLUOR 100X OIL N.A.1.3, W.D.0.16MM

ALL OBJECTIVES SHOULD BE GOOD ENOUGH TO REDUCE HALO.

NOSE PIECE MUST BE **QUINTUPLE NOSEPIECE** TO ACCOMMODATE ALL OBJECTIVES.

COARSE / FINE FOCUSING FINE 0.2MM PER ROTATION; COARSE 37MM OR MORE/PER ROTATION.

COARSE MOTION TORQUE SHOULD BE ADJUSTABLE.

STAGE PLAIN STAGE WITH ATTACHED MECHANICAL STAGE & UNIVERSAL HOLDER TO ACCOMMODATE DIFFERENT HOLDERS, SLIDE ETC.

CONDENSER HIGH W.D. CONDENSER SHOULD BE QUOTED (MIN.75MM)

ILLUMINATION WHITE LED ILLUMINATOR WITH **LAMP-LIFE OF AT LEAST 60,000 HRS.**

FLUORESCENCE IN-BUILT LED FLUORESCENCE WITH NARROW BAND UV (EX361-389; DM415; EM430-490), BLUE FILTERS (EX465-495; DM505; EM512-558) & GREEN FILTER (EX510-560; DM575; EM580 & ABOVE). SHOULD HAVE FOUR POSITION FLUORESCENCE FILTER (or Higher) TURRET FOR THREE FILTERS & ONE BRIGHT FIELD POSITION.

IMAGE ANALYSER USB 3.0 (or better) BASED 5.5MP OR MORE CCD/CMOS CAMERA WITH AT LEAST 65% Q.E. FOR BETTER FLUORESCENCE IAMGING, FULL FRAME SPEED OF AT LEAST 15FPS, AT LEAST THREE WAY EXPOSURE CONTROL, WITH SOFTWARE FOR LIVE IMAGING, MEASUREMENT,VIDEO CAPTURING, IMAGE EDITING ETC. THERE SHOULD ALSO BE OPTION FOR FLUORESCENCE CHANNEL MERGING & TIME-LAPSE IMAGING. **SOFTWARE MUST BE UPGRADABLE TO ADVANCED VERSION TO SUPPORT 6D IMAGING, 2D/3D DECONVOLUTION ETC. (USER LIST OF SAME SHOULD BE PROVIDED WITH CONTACT DETAILS)**

MICROSCOPE, CAMERA & SOFTWARE SHOULD BE FROM SAME MANUFACTURER FOR BEST COMPATIBILITY & UPGRADABILITY.

Details of the configuration and deviation must be provided along with technical bid.

Other Terms and Conditions

1. At least 10 contacts of the above equipment and accessories (Annexure-I) or higher configuration from IIT/ NIT/IISER/reputed Indian institute/Govt. R&D organizations must be provided in last five years. Scan copies of the minimum five purchase orders of the above equipment and accessories (Annexure-I) or higher configuration must be enclosed along with the technical bid.
2. Minimum 5 number of Annual Maintenance service contract from users within India only should be provided.
3. Certificate from OEM or its Indian representative to have a complete after sales service set up unit in India.
4. If the bidder is not an OEM, the representative must submit a certificate from OEM for serving the same OEM in India at least for 5 years.
5. Warranty and Comprehensive Maintenance Contract (CMC):
 - (i) Comprehensive warranty for 1 years including spares and consumables. Warranty will be effective from the date of successful installation at NIT-Rourkela.
6. Price should include installation and delivery of the Microscope to NIT-Rourkela basis. Customs duty exemption certificate will be provided by the Institute.
7. **Release of EMD:** The EMD of the successful bidder shall be released after successful installation of the units.
8. **Validity of bids:** The rate quote should be valid for a minimum of 120 days.
9. Certification:
 - (i) CE and ISO certification is needed

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