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/LS/2018/44 **Dated: 08.08.2018**

The National Institute of Technology, Rourkela invites bids from the eligible bidders for procurement **of Fluorescence Plate Reader at Nit Rourkela.**

Last date of Submission of Bid : 30/08/2018 at 11:00 AM

Date of opening of Technical Bid : 31/08/2018 at 11:00 AM

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

Contact: Dr. Sujit Kumar Bhutia; Ph. 0661-2462686

Email: sujitb@nitrkl.ac.in

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

sd/-
REGISTRAR

NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA – 769 008, ODISHA

(OPEN TENDER NOTICE NO: NITR/PW/LS/2018/44 Date: 08/08/2018)

Purchase of Fluorescence Plate Reader.

Sl.No	Description of Goods/Service	Quantity
1.	**Fluorescence Plate Reader** **General Specifications:** • Microplate reader with detection modes Standard fluorescence intensity, TRF, Luminescence & UV-Visible absorbance included • Should be possible to upgrade to TR-FRET, Fluorescence Polarization & Alpha screen assays on the same system • Measurement Modes like Endpoint and Kinetic measurements, Sequential Multi Excitation measurements / Multi Emission measurements, • Well Scanning mode with 900 data points per well, 3-D profile of the well, individual reading and statistical analysis like average, Sum, Min, Max, etc. • Should be compatible to all SBS format 6 to 384-well Microplates • Temperature control from ambient +3°C to 45°C • Read Times Flying mode: <13 sec for 96 well plates & <18 secs for 384-well plates • Linear and orbital shaking modes with user-definable time and speed **Fluorescence** Wavelength Range: 240 - 740 nm **Light source: High energy long life Xenon flash lamp** Detector: photomultiplier tube (PMT) Top and bottom reading should be possible **Wavelength selection: By optical Filters, with on-board 6-8 positions each on Excitation and emission filter wheel** **Sensitivity: Fluorescence intensity < 0.2 fmol/well Fluorescein (Top and Bottom)** TRF mode < 30 amol/well Europium **Absorbance:** Wavelength Range: 220 - 1000 nm, OD range: 0 to 4 OD Light source: High energy long life Xenon flash lamp **Detector: CCD based advanced Spectrometer for ultrafast scanning** **Scan Speed: should be possible to scan full wavelength spectrum in less than 2 sec/well** Accuracy: ± 1% at 2 OD & Precision: ±0.5% at 1 OD and ± 0.8% at > 2 OD Path length correction to normalize to standard ODs at 10mm **Luminescence** Wavelength Range: 240 - 740 nm Detector: Photomultiplier tube Top and bottom reading should be possible Wavelength selection by selective filter should be possible Sensitivity: < 20 amol/well ATP, DL Ready certified Should be possible to have up to two onboard injectors to dispense reagents and initiate kinetic events - Injection at measurement position (6 to 384-well) - Variable injection speeds up to 420 µL / s Injectors should be quoted as price option. **Control & Data Analysis Software** **License-free software possible to install on multiple computers** **Compliant with US FDA regulation 21 CFR Part 11** Should be possible to create USERS, set passwords and select path for data storage Should be possible to create shortcut icons for frequently used protocols Versatile kinetic software features for endpoint, long-term and fast kinetic measurement Real-time kinetic monitoring should be possible Template manager for transferring standards, building complex data processing protocols and using default templates Calculation based on Standard Curves, User defined formulas, Ratio metric analysis, etc.	**1**

Note: (Should be supplied with desktop PC suitable configuration for the above instrument)

1. **Quantity required Delivery: As mentioned above (All information provided in technical specification)**
2. **Delivery: Within 60 days from the date of purchase order**
3. **Last Date of submission of Tender : 30/08/2018 at 11:00 AM**
4. **Date of opening of Technical Bid : 31/08/2018 at 11:00 AM**
5. The firm should not have been black listed at any time.
6. 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.

Procurement of **Fluorescence Plate Reader** at Nit Rourkela
(Tender Notice No.: - NITR/PW/LS/2018/44 dated: 08.08.2018 Due on 30.08.2018 at 11:00 AM)

7. Liquidated damage clause will be charged for any delay in supply of goods.
8. The validity of the tender shall be **90 days** from the date of opening of the bids.
9. Detailed advertisement including all tender documents is also available in our website at http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx.
10. NIT reserves the right to qualify or deny prequalification of any or all applicants without assigning any reasons.

Sd/-
(REGISTRAR)
NIT, Rourkela
Fax No- 0661-2462022
Ph. No -0661-2472021