



**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/LS/2019/146

Dated: 20/09/2019

The National Institute of Technology, Rourkela invites bids from the eligible bidders for procurement of **Microplate Reader with all its accessories.**

Last date of Submission of Bid : **18/10/2019 by 03:00 PM**

Opening date of techno-commercial Bid : **21/10/2019 at 11:00 AM**

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

Contact: Prof. S. Das, Department of Life Science[LS]

Ph: 0661-2462684;

Email: surajit@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/LS/2019/146 DATED: - 20/09/2019

(Procurement of Microplate Reader with all its accessories)

Sl.	Description of Goods/Service	Quantity
01.	Microplate reader (Detailed specification as per Annexure – I)	01 unit

1. Quantity required : 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 Bid : **18/10/2019 by 03:00 PM**
4. Date of opening of techno-commercial bid : **21/10/2019 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 Microplate Reader with all its accessories.

(Open Tender Notice No.: NITR/PW-SR/LS/2019/146 Dated:- 20/09/2019) Due on 18/10/2019 by 03:00 PM.

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.

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

Technical Specification of for Microplate Reader

- A spectral scanning unit for UV-visible-Near IR wavelength range, with dedicated cuvette port (with no extra attachments) and should be able to read 96 & 384 microwell plate format.
- Should work as a standalone system without computer and also able to run with computer controlled software.
- Analysis Software supplied should be supplied with unlimited user license.
- Should be able to read end point, kinetics, spectral scanning and also Kinetic spectral scan.
- Instrument should be able to read, at least 16 low volume samples of 2µl-10µl using low volume analysis plate in case of DNA/RNA purity & concentration check in directly with standalone mode.
- System should be able to run in stand-alone mode using 7 inch or more touch screen for quick usage.
- The instrument should have a memory of 99 inbuilt protocols in stand-alone mode
- Communication options: USB ports to PC, wi fi dongle and data transfer devices, 1 Ethernet port
- Access data via cloud based capabilities, wired or wireless network connection.
- Instrument is able to provide the wavelength range from 200nm to 1000nm with 1 nm steps.
- Spectral scanning speed: 10 sec from 200 to 1000 nm with 1 nm steps per sample.
- Performance Specifications: Bandwidth: < 2.5 nm or better and Xenon flash lamp life should be for 10 million 96 well microplates.
- The instrument should have inbuilt incubation and linear shaking options for longer kinetic assays etc.
- Incubation temperature: from ambient +2 °C to +45 °C.
- Spectral scanning speed 200 to 1000nm should be 10 sec. or less.
- Measurement speed should be 6 sec. for 96 well and 10 sec. for 384 well plate
- The instrument should have minimum 2 USB ports, one for the easy data transfer and able to connect wi-fi dongle.
- System should have Power Save function for reduced energy consumption when the instrument is 'on' but not in use.
- Visualize data in both numerical mode and heat-map/virtual image of plate.
- Multiple Software should have language versions: English, German, French, Spanish, Portuguese, Russian, Chinese and Japanese for multi student's usage.

Data Analysis Software:

- Software should allow multiple absorbance /photometry steps in a single program for differentially analysis assays, including plate out option during the program to add required compounds and then continue the program for further analysis.
- Allow multiple absorbance reading steps within the same program i.e. in case of two sets of reading before and after adding the compounds.
- Database based software to run backups of all data, restore back up data (in case of hardware failure of original computer).

- Should have area selection option, for different measuring parameters for different area in a same plate.
- Spectral scanning of all 96 samples or 384 samples should be able to view in single graph plot.
- Data export can be pdf, excel, xml and note format.

Mandatory accessories:

Laptop and 2KVA UPS must be supplied with the Microplate reader.

Technical specification for mandatory accessories

Laptop:

- Intel Core i5, 8GB DDR4 RAM, 1TB HDD, Windows 10, Integrated Graphics, 15.6-inch Screen Size, Optical Drive (DVD+RW), USB Port, HDMI Port

UPS: 2 KVA Online UPS

Input

Input Voltage Range (Load < 50%)	118 ~ 295 V (± 5 V)
Input Voltage range ((Load > 50%))	160 ~ 295 V (± 5 V)
Frequency	40 ~ 70 Hz
Phase	Single Phase with Ground
Power Factor	≥ 0.99 @ full load

Battery

DC Voltage	72 V(6* 7.0 AH Battery inside)
Charge Current	1.5 Amps
Communication Interface	RS232,SNMP (Optional)
Indication	LCD Display
Noise Level	Less than 50dBA @ 1 Meter (With Fan Speed Control)
Warranty	One Year

Output

Voltage Range	208 / 220 / 230 / 240 V AC
Frequency Range (Synchronized Range)	47 ~ 53 Hz or 57 ~ 63 Hz
Frequency Range (Battery Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz

Others

- A complete design along with clear indication/markings of specification mentioned in the technical bidding document (wherever possible) of the instrument must be provided with the bidding document
- Warranty: Minimum 1year standard warranty from the date of installation.
- Scanned copy of technical brochure and website reference of the same must be included in the bid. The specification mentioned in the bid document must tally with the technical brochure.

- Technical specification of the instrument with "Yes/No" format against each specification will not be considered a technical bidding document. A separate compliance sheet of technical specification with specific value of the equipment along with the deviation must be included.
- Detailed User List with the concerned person's valid contact details, in India or abroad where instrument is still in operational condition must be provided.
- The ordered goods are required to be installed within 30 days of receipt of goods at this Institute. Installation should be carried out only by expert engineers of Supplier / Manufacturer. During the course of installation, necessary training on operation and maintenance of the goods shall be imparted to Institute's Faculties / Engineers / Technicians. Installation and training must be free of cost
- During the course of evaluation, NIT Rourkela, may, at its discretion ask the bidder for clarification of its bid. The request for clarification and the response shall be in writing / email and no change in prices or substance of the bid shall be sought, offered or permitted.
- Prior installation conditions / site preparation / electrical connection required must be clearly mentioned in the quotation along with technical bidding documents
- Prices of additional / optional items not appearing in the BOQ, if any, shall be quoted in a separate PDF file, duly signed by Bidder's authorized person/persons.
- If any component/ additional instrumental unit/consumables which is required for smooth running of instrument is made in India that must be quoted in INR. Anything which is of Indian origin must be quoted in INR.
- The comparison between the indigenous and the foreign offers shall be made on FOB destination basis and CIF / CIP basis respectively
- In case optional items are specified in the tendered specifications, the Purchaser reserves the right to buy or not to buy the optional items. In case the option is exercised to buy the optional items after Bid opening, then the cost of optional items would be included to ascertain the Lowest Evaluated Responsive Bid. In case, the option is exercised not to buy the optional items, then the cost of the optional items would not be included in ascertaining the Lowest Evaluated Responsive Bid.
- The quotations are liable to be rejected if any of the above conditions are not complied with or there is any violation of GFR17 rules and regulations. Conditional Bids shall not be accepted.
- The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
- Note: Where there is no mention of packing, forwarding, freight, insurance charges, taxes etc., such offers shall be treated as inclusive of all these expenses
- In all regards, the GFR17 rules and regulation will be strictly followed

For goods manufactured abroad

- (i) If the instrument is of foreign origin (i.e. manufactured in foreign country) then price must be quoted in foreign currency.
- (ii) The price must be mentioned with clear demarcation at every stage such as instrument price, discount, packing and forwarding, transport, insurance whichever is applicable.
- (iii) Bidder should mention the country of origin and the country from which goods will be finally shipped

- (iv) In case, an Indian agent is directly submitting a bid on behalf of its Principals, a copy of the Authorization Certificate issued by the Principals in favour of the Indian agent should be furnished along with a certified copy of the Agency Agreement between the foreign Principal and Indian agent. Both these certificates must be up-to-date
- (v) A letter in the official letter head of the principal declaring the Indian agent as their authorized agency to bid must contain the official tender enquiry no as depicted in CPP portal must be included with the technical bid. (This must not be clubbed with Authorization Certificate)
- (vi) For items with foreign origin, price must be quoted in foreign currency up to CIP Kolkata basis and NIT Rourkela will arrange customs clearance (in coordination with the supplier) and transportation to NIT Rourkela.

For goods manufactured in India.

- (i) The price must be mentioned with clear demarcation at every stage such as instrument price, discount, GST calculated, packing and forwarding, transport, insurance whichever is applicable.
- (ii) The delivery up to NIT Rourkela is solely bidder's responsibility
- (iii) GST at applicable rates, which will be payable on the goods if the contract is awarded. Bidders are requested to calculate GST @5% (in this regard necessary documents will be provided to the awardee bidder at the appropriate stage)
- (iv) Charges for inland transportation, insurance and other local services required for delivering the goods at the desired destination must be mentioned in the bid.

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