



Ref. No.: NITANP/SMMD/TENDER/2026-27/26

Date: 17.09.2026

SINGLE TENDER ENQUIRY

To
M/s Eppendorf India Pvt. Ltd
Plot No. 18,19,20 (Part),
Ambit Park Road,
SIDCO Industrial Estate
(South Phase) Ambattur,
Chennai – 600058.
Email: Janardhanan.S@eppendorf.co.in
Ph: 7358091670

Sub: Supply of “Fermenter with Accessories” for NIT Andhra Pradesh - Quotation invited – Reg.

Please send your lowest quotation for the above work/supply as per the specifications/ requirements mentioned in **Annexure-1**. The lowest quotation must be submitted **ON FIRM LETTER HEAD** in the given format (**Annexure-1 along with necessary documents as specified and duly abiding to the important instructions**), failing which bid shall be treated as Unresponsive. The quotation is to be sent in a sealed envelope to the following address:

**C/o Tender Box
Material Management & Disposal Section (006, Ground Floor)
Sardar Vallabhbhai Patel Administrative Building
National Institute of Technology Andhra Pradesh,
Near National Highway No. 216A, Kadakatla,
Tadepalligudem – 534101
West Godavari District, Andhra Pradesh.**

The quotation has to be sent by Post (Ordinary / Register / Speed Post) or drop in Tender Box physically. (Any other mode will not be accepted)

The envelope must be superscribed as “**QUOTATION**” at the center of the envelope and the above **reference number at left top** along with the **Subject of the tender** on the envelope.

Please note that, the bid envelope received without the above-mentioned superscription **shall be treated as UNRESPONSIVE**.

The last date to receive the sealed envelope with quotation is 01.10.2026.

Annexure-1

Name of the Item/Work: Supply of “Fermenter with Accessories” for NITANP.

S. No	Description of items	Qty	Unit Price (In Rs)	Amount (In Rs)
1	<u>Fermenter with Accessories:</u> <u>Technical Specifications of fermenter with accessories System</u> 1. A complete bioreactor/fermenter system equipped with all the necessary components, tubing, cables, and filters 2. The fermenter/bioreactor system should be a compact benchtop and be a complete unit in terms of its dedicated console unit, controller, and all other accessories and the culture vessel. <u>Vessel</u> 3. The fermenter vessel should be 10 L or more capacity with heat blanket. The operating working volume of the vessel should be between 4.0 – 10.5 L. Should have flexibility for different working volumes. 4. The supplied vessels should be autoclavable, Heat Blanketed–dished bottom/double walled and made of borosilicate glass. 5. Fermenter vessel should be capable of performing batch, fed-batch, and continuous processes. 6. The controller should be capable of handling the volumes from 250 mL to 40 L on a wide variety of both autoclavable and Single-Use Vessels for the future scale up operation. 7. It should be possible to use the same system for both microbial as well as mammalian cell culture applications. 8. Along with the glass vessel, a 5L or 10L single use vessel also to be provided 9. Sparger – Ring sparger <u>Head Plate</u> 10. The Vessel should have more than 10 head plate ports for sample collection, impeller, various sensors/probes such as pH, temperature, pO₂, anti-foam, inoculation, exhaust cooler, liquid addition, sparger, etc., and all other essential functions for fermenter/bioreactor operation. 11. Gas exhaust should have a 0.2 µm filter (autoclavable) to avoid contamination with a condenser.	01		

12. The top plate of the glass vessel should be constructed of stainless steel 316L and electrolytically polished.

Drives

13. The system should be with Direct Drive and should have provision to be used with either Rushton (6-bladed), Pitched Blade or Marine Impeller.
14. The motor speed should be in the range of 25 – 1200 rpm or more.
15. System should have a provision for interchanging the Direct drive with the magnetic drive for single use and glass bio-reactor systems.

Probes

16. The system should be supplied with pH, temperature, level, and DO sensors/probes.
17. Two flexible universal connections should be available for analog or digital Mettler Toledo sensors of ISM type.
18. Automatic pH control should be available through microprocessor or PID control, and the pH control range should be from 2 – 12 with accuracy 0.02.
19. DO range and Sensor: 0-200 % or more and Polarographic DO sensor.
20. It should be possible to control the temperature within the range 10°C - 65°C or more.
21. Temperature Control: PID controller for both heating and cooling and Sensor: Resistance Temperature Detector (RTD) probe

Pumps

22. System should be supplied with three front-mounted fixed-speed pumps with industry-standard easy load pump heads for convenient liquid addition/ removal, could be used in fixed speed and % Pulse Width Mode (PWM) mode (30 RPM).

Gas Flow

23. The system should have an automatic mass flow controller/ a rotameters and should have a provision with 4 solenoid valves (e.g., for Air, O₂, CO₂, N₂) for gases with a range 0.2 to 20 liter/min and should be able to operate with oxygen enrichment and nitrogen enrichment using 4-gas and 3-gas mixing options.

24. Automatic gas mixing algorithms for simplified control, and User-defined DO cascades to be available to offer process flexibility.
25. System should offer universal gas control strategy for both microbial and cell culture application, without the need for additional equipment

System Controller

26. The controller should have user-friendly intuitive handling, practical onscreen help/support, and a calibration wizard for temperature, pO₂, pH, etc.
27. The controller should be able to perform real-time detection, recording, and control of the pH, temperature, dissolved oxygen, liquid/feed addition, and agitation of the culture vessel
28. System controller should have an expanded trend screen Large 7-inch colour touch screen display or bigger to observe the process parameters of minimum of 8 parameters or more.
29. System should with software for a remote monitoring system through PC.
30. Should have Auto Culture modes that give one-touch process control for microbial and cell culture.
31. Provisions for interchangeable vessels (1 L to 10 L or more) should be available.
32. System should come with IP21 rated enclosure for protection of sensitive electronics and cleanability.
33. The system should be supplied with a minimum of 2 USB ports, Ethernet connectivity, should have own/original built-in SCADA software, and an IP network for remote monitoring.

Application Support

34. Application notes/white papers published should be available for the quoted system on the website of the supplier.
35. On-field application support should be available in the region.
36. Brochure of quoted model must be available on the instrument's website with all the technical details required in buyers' specifications.
37. Should have minimum 10 or more installation in India in

	centrally funded institutes (IIT, IISc, NITs, DST, DBT, etc.) and/or reputed Industries (Biocon, Syngene, Dr. Reddy's, Lanza, etc.) and attach the details of the equipment supplied (purchase copies) in the last one year (1 st April 2025 - 31 st March 2026).			
	38. The bidder should provide minimum of ten or more performance reports for the proposed system in the last one year (1 st April 2025 - 31 st March 2026).			
	39. Should be CE or BIS or ISO certified.			
	40. Consumables and spares: head plate o-ring/ lip seal / clamping ring /connectors/tubing clamps/ cable ties/ extra silicon tubes /filters Exhaust: 0.2 micrometer filters to avoid contamination			
	41. Should have a one-year standard warranty from the date of installation and should support updates (technology/product), spare, and service on a regular basis and prompt response for any query within 1-2 days.			
Sub Total				
GST@__%				
Grand Total				

The Firm/Bidder must submit following documents along with Quotation failing which bid shall be treated as UNRESPONSIVE:

1. Certificate of GST Registration.
2. Authorization Certificate from the Original Equipment Manufacturer.
3. Sole Vendor Authorization for distribution by OEM.
4. Proof of Previous Purchase Order (s) issued by Government Organization (s) produced under PAC (preferably in the FY 2025-26 & 2026-27).
5. Copy of the tender document and enclosures with Bidder's signature and seal.
6. Company incorporation Certificate relevant to want of experience in the tender document.

Important Instructions:

1. L1 will be identified based on the consolidated quoted price if otherwise not specified in the bid document.
2. The quotation should not contain any handwritten text except the Price quoted.
3. Rates should be clearly quoted against the item.
4. The quotation shall be valid for a minimum period of 90 Days from the closing date of the Bid.
5. The price quoted should be F.O.R. Destination (including Freight, insurance, loading, unloading at specific location in the premises of NIT Andhra Pradesh).
6. The Bidder shall inscribe the Tender reference number and Tender Subject on the bid envelope submitted to the Institute.
7. Please note that the Director reserves the right to modify or alter the specifications and also to reject any or all the Quotations without assigning any reasons thereto.
8. The Institute is not responsible for delays / loss in postal transit or due to any other reasons in regard to timely receipt of the bid.

Sd/-
Associate Dean, P&D (SMMD)