Mundur (P0), Palakkad (Dist.), Kerala

0491-2832663, 2832324, 9188183296

mail@irtc.org.in

www.irtc.org.in

## Quotation Notice No. IRTC/P/ 05 /2024 - 25 Dated 31 - 12 - 2024

Quotations are invited from the manufactures/authorized distributors for the supply of the following items for the implementing the project under Plan Grant 2024 - 25. Quotation should be sent to the following address: Registrar, IRTC, Mundur, Palakkad, Kerala - 678592, Phone 2832663, 2832324, 9188183296.

Last Date of submission: 07 - 01 - 2025, 5 pm

| SI.No | Name of Item                      | Specificat <mark>i</mark> on   | Quantity |
|-------|-----------------------------------|--|----------|
| 1     | Specifications for the Bioreactor | Total Volume – 100 Ltrs. Working Volume – 80 Ltrs Fermenter made of triple wall Wall made of high grade 304 SS sheet Flanges made of Stainless steel Silicon gasket Stirring Systems:- Agitation has to be done by SS shaft, along with the propeller fitted from the bottom The shaft with a stuffing box and gland packing to avoid leaking while running. Bioreactor vessel mounted on stainless steel structure The following provision are to be provided in the fermenter Steam inlet valve Media inlet valve PH reference collection valve Safety valve and pressure gauge Thermometer Air inlet valve with perforated tube up to bottom of vessel Drainage valve at the bottom of vessel | 1        |

| 2 | Portable pH meter  | pH Range: 0 – 14 Temperature Range: 1-55 °C Resolution: 0.1 pH; Temperature resolution is 0.1 °C/F Accuracy: +/- 0.2 pH; Temperature accuracy is +/-2% Calibration: Digital automatic calibration Minimum EC/TDS: 10 μS/5 ppm Electrode: Glass sensor and reference tube electrodes Power source: Button cell batteries  Should Measure Oxidation Reduction Potential                    | 1, |
|---|--|--|----|
| 3 | Portable ORP<br>(Oxidation reduction<br>potential) meter | (Redox) and Temperature Auto-ranging calibration Waterproof housing (IP-67 rating minimum) Digital Calibration LCD screen with simultaneous temperature display. ORP Range: -999 to +1000 mV Temperature Range: 0-80°C; 32-176°F Resolution: 1 mV; Accuracy: 0.5% (+/-2mV) Electrode: Replaceable glass sensor and reference tube electrodes Battery Powered Warranty: One Year Warranty | 1  |
| 4 | Cl (Chloride) test kit                                   | Kit for 160 tests<br>Range 0-8 pm  | 1  |



Registrar

Registrar Integrated Rural Technology Centre Mundur, Palakkad - 678 592 Kerala