



Indian Cardamom Research Institute,  
Spices Board,  
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No.MYL/ADM/6(1)2016-17/PATH-PUR

Dated: 22<sup>nd</sup> December, 2016

### QUOTATION NOTICE

Sealed tenders are invited from the reputed suppliers of Fermentor for the Board's Research wing Indian Cardamom Research Institute (ICRI) located at Myladumpara, Idukki, Kerala. The rate quoted should give breakup of the cost, taxes, packing and forwarding, insurance, freight, clearing and forwarding charges etc., if any. Sealed cover containing the quotation should be super scribed "Quotation for supply of Fermentor to Indian Cardamom Research Institute – Due date 23<sup>rd</sup> January 2017". The quotation should be addressed to the 'Director (Research), Indian Cardamom Research Institute, Spices Board, Kailasanadu P.O., Idukki-685 553' so as to reach on or before 5.00 PM on 23<sup>rd</sup> January 2017. The quotations will be opened on 24th January 2017 at 11.00 AM at ICRI, Myladumpara.

**Specification of the Fermentor** – attached as Annex-I

#### **Terms and Conditions:**

The tenderer shall submit along with the quotation a sum equivalent of 2% of the quoted amount as EMD, by means of Demand Draft drawn in favour of **Director (Res), Spices Board**, payable at Nedumkandam. The EMD should be submitted in a sealed cover marked on the outside with the word 'EMD'. The EMD of unsuccessful Tenderer(s) will be refunded after short listing of proposals, without any interest. In case the tenderer withdraws from the process, the EMD deposited by him will be forfeited.

A complete compliance statement, stating the status of compliance with each point in the technical specification, should necessarily accompany the quotation.

A comprehensive warranty (Spares) for 5 years for the complete equipment should be provided.

Any break down of the equipment during the warranty period has to be resolved in 48 hours.

A 20% Bank Guarantee should be provided for the 5 years' comprehensive warranty. Warranty amount may be quoted separately.

Complete users list in India, for the quoted model, with contact addresses, e.mail and phone numbers should be provided.

The payment shall be made after the successful/satisfactory completion of the installation of the equipment at the Pathology Division specified in the purchase order.

The delivery must be made within 15 days of receipt of confirmation of order.

DIRECTOR(RES)


**Specifications for Fermentor:**

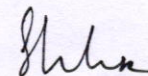
Capacity	: 130 litres
Working capacity	: 100 litres
Inner Chamber	: stainless steel 316 grade
Outer Chamber (Jacket)	: stainless steel 304 grade
Tank Flange	: stainless steel
Lid	: stainless steel
Legs Support	: MS angle structure
Gasket	: Neoprene Gasket
Shaft	: SS shaft turbine type
Motor	: Standard make
Motor Power	: 1HP
Supply	: 230V, 50Hz, AC
Agitator Speed	: Fixed RPM (144 rpm)
Temperature indicator	: Digital thermometer (0 <sup>0</sup> -200 <sup>0</sup> C) ±1 <sup>0</sup> C
Pressure gauge	: Digital
Ports of the dish	: For safety valve
	: For water inlet to shell
	: For pressure gauge
	: For air inlet with sparges system
	: For air outlet with air filter
	: For inoculation (diameter 19 mm NB)
	: Sight glass with illumination
Bottom of the Fermentor	: For drain valve 19 mm NB
Sterilization	: In situ

**Optional Accessories**

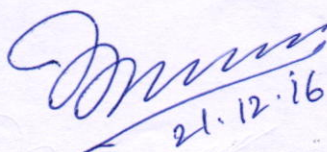
- |   |   |
|---|---|
| 1. Air Filters: Three filter system in SS housing | : |
| 2. Air Compressor Oil free                        | : |
| 3. pH probe                                       | : |
| 4. Peristaltic pump (1.5 litre per hour)          | : |
| 5. Do probe                                       | : |
| 6. Digital pressure gauge                         | : |
| 7. Variable speed control                         | : |

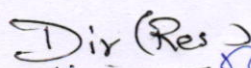
HOD (PATH)

  
 24/11/16

  
 24.11.16.

Dr. Shadamaika  
 Scientist-C, PP.

  
 21.12.16

  
 21/12/16