सीएसआईआर- भारतीय रासायनिक प्रौद्योगिकी संस्थान
CSIR-Indian Institute of Chemical Technology
आई. एस. ओ. **9001** संगठन (विश्लेषणात्मक परिसेवा हेतु) /**ISO 9001 Organization (for Analytical Services)**
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद) / **(Council of Scientific and Industrial Research)**
तारनाका, उप्पल रोड़, हैदराबाद. तेलंगाना राज्य, भारत. **500 007.**
Tarnaka, Uppal Road, Hyderabad. Telangana State, India. 500 007

PLATINUM JUBILEE 1944-2018 CSIR - IICT Touching Lives

PURCHASE ORDER

No: PUR/IICT/1187/24-25/PAC/ 2048 **Date: 25-11-2024**

To
M/s. Amar Equipments Pvt Ltd
Valson Compound ,LbS Road
Bhandup(w),Mumbai 400078
Ph:+91-22-62255000/ M: +91-7506073792
Email:info@amarequip.com | E: tender@amarequip.com

Sub;- Supply Installation and Commissioning of "**Pinch Flow Reactor System**"- reg.
Ref: - 1. Our Tender Enquiry No. PUR/IICT/1187/24-25/PAC DT.05.10..2024 and CPPP tender enquiry No.2024_CSIR_210261_2 Dt.05.10.2024.

2. Your bid reference No: QMRM/AEPL/2425/74 DT.09.10.24.
3. Your revised offer received through email dt.18.11.2024.

Dear Sirs,

Kindly supply the following item(s) strictly as per the terms and conditions.

Sl. No	DESCRIPTION OF MATERIAL	Quantity	Price in (₹)	Total Amount in (₹)
1.	**Pinch Flow Reactor System** *(Detailed Specifications and other items and accessories as per Annexure enclosed)*	1No.	-	42,48,500.00
				42,48,500.00
			Add GST @18%	**Inclusive**
			FOR CSIR-IICT, Hyderabad	**42,48,500.00**

TERMS & CONDITIONS:

1. Prices: FOR CSIR-IICT Inclusive of all taxes, duties etc., Hyderabad. Unloading the consignment at our site is your cost.

2. Order Acknowledgement: Kindly send order acknowledgement within 15 days through Email: cosp@iict.res.in and csiriicthyd@csiriict.in mention PO No. in the subject line. If you notice any discrepancy/typographical error etc. in this order, you must immediately request for its amendment/correction. Further along with duly signed and stamped copy of this P.O. as token of acceptance of terms and conditions of this P.O. You are also required to sign a contract agreement in pursuance of this Purchase Order in the prescribed format on a Non-Judicial Stamp paper of Rs 200/-(contract form attached)

3. Taxes and Levies: Price includes GST@18% also

4. Delivery Period : The ordered material should be supplied within the delivery period of 12-14 weeks from the date of receipt of the Purchase Order.

5. PAYMENT TERMS:I) 100% through RTGS /NEFT or online mode against supply in complete quantity of ordered items in good condition as per ordered specifications and terms, subject to its joint inspection in the presence of suppliers service engineers/ representative and its confirmations and successful Installation and final acceptance by CSIR IICT End User, our Bankers State Bank of India, IICT Branch, Hyderabad, , subject to submission of prescribed PBG.

6. Warranty: Warranty should be furnished for 12 months from the date of successful installation and commissioning of the equipment and subject to final acceptance of the same by the CSIR-IICT user. If CSIR IICT wants to enter into CAMC/AMC in future after warranty period the amount for AMC charges shall not exceed CAMC/AMC Charges indicated in quotation (if any) and the same will not be paid in advance and the same shall be paid on bill basis only.

7. Performance Bank Guarantee: 5% PBG valid till 60 days beyond the date of final installation and commissioning to be submitted within 21 days from the date of the Purchase Order, failing which order may be cancelled at the discretion of CSIR IICT.

8. INSTALLATION, COMMISSIONING AND DEMONSTRATION: A qualified and factory-trained service engineer should commission the supplied equipment free of cost within *one* month from the date of receipt of the ordered goods and onsite application training to be provided for 2 persons 3 working days at CSIR IICT., Telangana, India. Supplier has to inform pre-installation requirements if any for site readiness within 10 days of receipt of this mail.

9. LD clause: Timely supply is the essence of stipulation in the delivery period of our purchase order, for our requirements have got a direct bearing with time targeted research work. By any measure, if there is any delay in delivery of the ordered material(s), a sum equivalent to 0.5 (point five) per cent of contract value for each week of delay or part thereof until actual delivery will be deducted from the contract value as liquidated damages, subject to the maximum deduction of 10 (ten) per cent of P.O. Value. CSIR IICT is also at liberty to consider the termination of the contract of the items is not delivered within the delivery period without assigning any reason thereof.

10. CSIR-IICT-GST No: 36AAATC2716R2ZF
PAN No. AAATC2716R TAN No. HYDI00674C

11. Availability of spares and service engineer support shall be conformed for a period of 10 years as part of after sales and service support on applicable charges after warranty period.

12. The dispute settlement mechanism/arbitration proceedings shall beConcluded as under:If any dispute or difference arises between the parties hereto as to the construction, interpretation, effect and implication of any provision of this agreement including the rights or liabilities or any claim or demandof any party against other or in regard to any other matter under thesepresents but excluding any matters, decisions or determination of which is expressly provided for in this Agreement, such disputes or differences shall be referred to Delhi International Arbitration Centre (DIAC), New Delhi. A reference to the Arbitration under this Clause shall be deemed to be submission within the meaning of the Arbitration and Conciliation Act, 1996 and the rules framed there under for the time being in force. Each party shall bear and pay its own cost of the arbitration proceedings unless the Arbitrators otherwise decides in the Award.
In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance withprovision of sub-clause (a) above. But if this is not acceptable to

the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.

The venue of the arbitration shall be the place from where the purchase order or contract is issued.(for further information please refer to our Tender Document)

13. Jurisdiction - All disputes related to this tender shall be subject to the local court of competent jurisdiction at HYDERABAD, Telangana, India only.

14. The terms and conditions and tender specifications and clarification there off as contained in the tender document shall form part of this purchase order .However, Incase of any discrepancy between this P.O. and Tender terms this purchase order (P.O.) shall prevail.

Yours faithfully,
For & on behalf of CSIR,

25.01.19

(Dharmendra Kumar)
Controller of Stores & Purchase

Note: Kindly, mention our purchase order reference number for all your future correspondence so as to enable us to avoid any delay while tracking/clearing the material(s).

Budget Head: PPP240004 for Rs.42,48,500/- (Rupees Forty Two lakhs Forty Eight Thousand and Five Hundred only)
1. Indentor's copy: **Dr.Sreepriya Vedantam (CEPT)** 2. Accounts copy; 3. Office copy; 4. Guard File copy 5. Spare copy;

Table 2 – SPECIFICATIONS:

1. **PinchFLO Reactor – 100ml**

S.N.	CONTENT	SPECIFICATION
A.	Volume	100 mL
B.	Type	Helical coil
C.	Reactor Tube Size	1/4" OD
D.	Material of Construction	Contact Part: HC 276 Utility Part: SS304
E.	Design pressure	50 bar
F.	Design temperature	-10 to 200°C
G.	Nozzles & Fittings	Inlet 1: 1/4" OD Inlet 2: 1/4" OD Outlet: 1/4" OD Jacket Inlet & Outlet: M16/M24
H.	Accessories	**Pressure safety valve** Relief Pressure: Settable from 20-40 bar O-ring: FFKM Size: 1/4" NPT MOC: HC 276 **Bourdon Pressure Guage** Pressure Range: 0 to 50 bar Dial size: 2.5" dia End connection: 1/4" NP MOC: SS with Teflon coated **Temperature sensor** Type: RTD 100 Process inlet and outlet: 2 Nos. Utility inlet and outlet: 2 Nos. **Y mixer to be provided** End connection: 1/4"

2. **PinchFLO Reactor – 50ml**

S.N.	CONTENT	SPECIFICATION
A.	Volume	50 mL
B.	Type	Helical coil
C.	Reactor Tube Size	1/4" OD
D.	Material of Construction	Contact Part: HC 276 Utility Part: SS304
E.	Design pressure	50 bar
F.	Design temperature	-10 to 200°C
G.	Nozzles & Fittings	Inlet 1: 1/4" OD Inlet 2: 1/4" OD Outlet: 1/4" OD Jacket Inlet & Outlet: M16/M24
H.	Accessories	**Pressure safety valve** Relief Pressure: Settable from 20-40 bar O-ring: FFKM Size: 1/4" NPT MOC: HC 276 **Bourdon Pressure Guage** Pressure Range: 0 to 50 bar Dial size: 2.5" dia End connection: 1/4" NP MOC: SS with Teflon coated **Temperature sensor** Type: RTD 100 Process inlet and outlet: 2 Nos. Utility inlet and outlet: 2 Nos. **Y mixer to be provided** End connection: 1/4"

Table 3 – Additional ATTACHMENTS WITH PRICE LIST:

S.N	Additional Attachments
1.	**HPLC Pump** Type: Single Head HPLC Pump Flowrate: 0.01 – 50 ml/min Max. Pressure: 150 bar Wetted Part MOC: HC 276 Max viscosity: Upto 100 cP
2.	**Preheater** Type: Spiral MOC: HC 276 Volume: 10 ml Temperature sensor at process outlet
3.	**Condenser** Type: Spiral MOC: HC 276 Volume: 10 ml Temperature sensor at process outlet
4.	**Manual back Pressure Regulator** Type: Manual Control pressure range: 0-17 bar Wetted parts: HC 276
5.	**Heating cooling circulators / Thermostat** CLM-3 Temperature range: -30 to 200°C
6.	**Triple insulated** SS flexible hoses 1.5-meter-long x 1 no *(required quantity shall be 2 no.)*
7.	**Suitable heat transfer** fluid for CLM-3 *(minimum order quantity 20 Ltrs.)* DI2 (suitable for temperature range -60°C to +185 °C)
8.	**Tubing and Fittings** As per suitable requirement MOC: HC 276
9.	**Control Panel** 10" HMI Control panel with high temperature indicator and high temperature alarm Total indicators: 9 (Process out of both pinchFLO, utility inlet and outlet, outlet of both preheater and outlet of condenser)
10.	**Skid** MOC: MS

The Supplied Equipment along with accessories should completely comply with all the technical specifications and related requirements indicated in Chapter 4 of Tender Documents on the subject and subsequent "corrigendum" issued in pursuance of the same.

COSP