



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 रोड, हैदराबाद. तेलंगाना राज्य, भारत. 500 007.
Tarnaka, Uppal Road, Hyderabad. Telangana State, India. 500 007



PURCHASE ORDER

No: PUR/IICT/1182/24-25/EQPT/2139

Date: 02-12-2024

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 "Flow Chemistry System"- reg.

Ref: - 1. Our Tender Enquiry No. PUR/IICT/1182/24-25/EQPT DT.05.10..2024 and CPPP tender enquiry No.2024_CSIR_210267_1 Dt.05.10.2024.

2. Your bid reference No: QMRM/AEPL/2425/75 DT.26.10.24.

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.	Flow Chemistry System <i>(Detailed Specifications and other items and accessories as per Annexure enclosed)</i>	1No.	30,01,400.00	30,01,400.00
				30,01,400.00
Add GST @18%				5,40,252.00
FOR CSIR-IICT, Hyderabad				35,41,652.00

TERMS & CONDITIONS:

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

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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 on or before 03.02.2024.
5. **PAYMENT TERMS:** 1) 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

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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 be Concluded as under:**
 - a) 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 demand of any party against other or in regard to any other matter under these presents 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 thereunder 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.
 - b) In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision 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.



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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,


2.11.24

(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.35,41,652/- (Rupees Thirty Five lakhs Forty One Thousand and Six Hundred Fifty Two only)

1. Indentor's copy: Dr.Sreepriya Vedantam (CEPT) 2. Accounts copy; 3. Office copy; 4. Guard File copy 5. Spare copy;



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NO.PUR/IICT/1182/24-25/EQPT/

DT.29.11.2024

Table 2 - SPECIFICATIONS:

I. CorFLO Reactor - 100ml

S.N.	CONTENT	SPECIFICATION
A.	Design Volume	100 mL
B.	Tube arrangement	Double pipe
C.	Tube type	Corrugated tube
D.	Reactor Tube Size	1/2" OD
E.	Length of reactor	1500mm
F.	Element type	Kenics
G.	Material of Construction	Contact Part: HC 276 Utility Part: SS304
H.	Design pressure	50 bar
I.	Design temperature	-10 to 200°C
J.	Nozzles & Fittings	Inlet 1: 1/2" OD Inlet 2: 1/2" OD Outlet: 1/2" OD Jacket Inlet & Outlet: M16
K.	Insulation	Suitable insulation with SS cladding
L.	Accessories	Pressure safety valve Relief Pressure: Settable from 20-40 bar O-ring: FFKM Size: 1/4" NPT MOC: HC 276 Pressure Gauge Pressure Range: 0 to 50 bar End connection: 1/4" NPT MOC: SS with Teflon coated Temperature sensor Type: RTD 100 Process inlet and outlet: 2 Nos. Utility inlet and outlet: 2 Nos. Y mixer for gas MOC: HC 276 End connection: 1/4" NPT

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2. CorFLO-50ml

S.N.	CONTENT	SPECIFICATION
A.	Design Volume	50 mL
B.	Tube arrangement	Double pipe
C.	Tube type	Corrugated tube
D.	Reactor Tube Size	3/8" OD
E.	Length of reactor	1500mm
F.	Element type	Kenics
G.	Material of Construction	Contact Part: HC 276 Utility Part: SS304
H.	Design pressure	50 bar
I.	Design temperature	-10 to 200°C
J.	Nozzles & Fittings	Inlet 1: 3/8" OD Inlet 2: 3/8" OD Outlet: 3/8" OD Jacket Inlet & Outlet: M16
K.	Insulation	Suitable insulation with SS cladding
L.	Accessories	Pressure safety valve Relief Pressure: Settable from 20-40 bar O-ring: FFKM Size: 1/4" NPT MOC: HC 276 Pressure Gauge Pressure Range: 0 to 50 bar End connection: 1/4" NPT MOC: SS with Teflon coated Temperature sensor Type: RTD 100 Process inlet and outlet: 2 Nos Utility inlet and outlet: 2 Nos. Y mixer for gas MOC: HC 276 End connection: 1/4" NPT



Table 3 – Reactor System Accessories Specification

S.N	Additional Attachments	Quantity
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	1
2.	Flow Rate:0.001-100ml/min,HC276,30MPa(Model ECP2100);ACDH000X	1
2.	Heating cooling circulators / Thermostat CLM-3 Temperature range: -30 to 200°C	2
3.	Triple insulated SS flexible hoses 1.5-meter-long x 1 no (required quantity shall be 2 no.)	20
4.	Suitable heat transfer fluid for CLM-3 (minimum order quantity 20 Ltrs.) D12 (suitable for temperature range -60°C to +185 °C)	1
5.	Tubing and Fittings As per suitable requirement MOC: HC 276	1
6.	Control Panel 10" HMI based control panel with high temperature indicator and high temperature alarm Total indicators: 8 (Process inlet and outlet of CorFLO, utility inlet and outlet)	1
7.	Skid MOC: SS 304	1

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

