



Government of Goa

**DIRECTORATE OF SKILL DEVELOPMENT & ENTREPRENEURSHIP
BICHOLIM GOVERNMENT INDUSTRIAL TRAINING INSTITUTE**

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Email: bicholim-iti.goa@nic.in

No.04/BGITI/STR/Fitter/2022-23/2052-

Date: 22.04.2022

To,

Sub: - Quotation for Supply of Tools & Accessories for Pneumatics and Hydraulics for Fitter trade of this institute. reg

Sir,

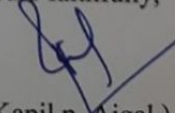
You are requested to kindly furnish your lowest and reasonable rates for the consumable materials as per below mentioned:-

| Sr.No | Description of item | Qty | Rate | Amount |
|-------|----------------------------|-----|------|--------|
| 1 | As per Enclosed Annexure-I | | | |

Terms and conditions:

1. The materials shall be supplied FOR destination within 45 days of placing supply order at the Bicholim Government Industrial Training Institute, Bicholim Goa.
2. GST and any other levy applicable at the time of supply may be shown **separately** in the quotation; otherwise it will be presumed that the prices offered are inclusive of all taxes.
3. The rate quoted shall be **inclusive** of packing and forwarding charges and freight paid for destination at Bicholim Government Industrial Training Institute, Bicholim Goa.
4. The material will be accepted after the inspection only if the same confirms with the specification mentioned in the supply order.
5. Quotations will be evaluated for all the items together. Therefore, all the items may be quoted.
6. The material if not accepted after inspection shall be collected by the supplier immediately with written assurance to supply the same as per specifications as mentioned in the supply order. The Bicholim Government Industrial Training Institute, Bicholim Goa shall be responsible for security/storing.
7. This office reserves the right to accept or reject any or all the quotations without assigning any reason thereof.
8. The warranty / guarantee shall be furnished as the case may be.
9. The extension of time limit will be granted as per the discretion of the Bicholim Government Industrial Training Institute, Bicholim Goa on genuine grounds by the written request of the supplier.
10. The quotation may be sent in **envelope** superscribing "QUOTATION NUMBER & SUBJECT" so as to reach this office at 2.30 pm on or before 05/May/2022 which will be opened on the same day at 3.30 pm.

Yours faithfully,

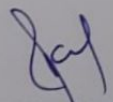

(Kapil p. Aigal)
Principal

Copy to :- 1) O/c

ANNEXURE - I

| Sr. No | Description | Qty. | Rate (Rs.) | Amount (Rs.) |
|--------|--|------|------------|--------------|
| 1 | Compressor unit suitable for Pressure: 8 bar, Delivery: 50 lpm (or more), Reservoir capacity: 24 Liters (or more), 230V, 50 Hz, with pressure regulator and water separator | 1 | | |
| 2 | Pneumatic Trainer Kit, each consisting of the following matching components and accessories: | 1 | | |
| | I. Single acting cylinder max. stroke length 50 mm, Bore dia 20mm | 1 | | |
| | II. Double acting cylinder max. stroke length 100 mm, Bore dia 20 mm, magnetic type | 1 | | |
| | III. 3/2-way valve manually-actuated, Normally Closed | 2 | | |
| | IV. 3/2-way valve pneumatically-actuated, spring return | 1 | | |
| | V. One-way flow control valve | 2 | | |
| | VI. 5/2-way valve with manually-operated switch | 1 | | |
| | VII. 5/2-way valve pneumatically-actuated, spring return | 1 | | |
| | VIII. 5/2-way pneumatic actuated valve double pilot | 1 | | |
| | IX. 3/2-way roller lever valve direct actuation Normally Closed | 2 | | |
| | X. Shuttle valve (OR) | 1 | | |
| | XI. Two-pressure valve (AND) | 1 | | |
| | XII. Pressure gauge 0-16 bar | 1 | | |
| | XIII. Manifold with self-closing NRV, 6-way | 1 | | |
| | XIV. Pushbutton station for electrical signal input with 3 illuminated momentary-contact switches (1 NO + 1 NC) and 1 illuminated maintained-contact switch (1 NO + 1 NC), Contact load 2A | 1 | | |
| | XV. Relay station with 3 relays each with 4 contact sets (3NO+1NC or Change-over type), 5A | 1 | | |
| | XVI. 3/2-way single solenoid valve with LED | 1 | | |
| | VII. 5/2-way single solenoid valve with manual override and LED | 1 | | |
| | VIII. 5/2-way double solenoid valve with manual override and LED | 1 | | |
| | XIX. Power supply unit, Input voltage 85 – 265 V AC, Output voltage: 24 V DC, Output current: max. 4.5 A, short-circuit-proof. | 1 | | |
| | XX. Profile plate, Anodized Aluminium 1100x700 mm, with carriers, mounting frames and mounting accessories (To be fitted onto the pneumatic workstation) | 1 | | |
| 3 | Pneumatic Workstation with 40 square mm aluminum profile legs, wooden work surface, and one pedestal drawer unit having 5 drawers, each with handles and individual locks, on metallic full panel drawer slide: (1) Work Table – Size (Approx.) L1200mmXW900mmXH900mm, with four castor wheels including two lockable wheels at the front side, (2) Drawer – Size (Approx.) – L460mmxW495mm xH158mm each, and overall size of Drawer unit (Approx.) - L470mmxW495mmxH825mm and (3) Drawer slide height (Approx.) 85mm. | 1 | | |
| 4 | Carrier for mounting components, such as PB & relay boxes. | 1 | | |
| 5 | Cut section model for pneumatic components | 1 | | |
| 6 | Hydraulic Trainer Kit, each consisting of the following matching components and accessories: | 1 | | |
| | I. Hydraulic Power pack with (1) external gear pump having a delivery rate of 2.5 lpm, (approx.) @ 1400 rpm operating pressure 60 bar, coupled to a single-phase AC motor (230 V AC) having start capacitor | 1 | | |

| | | | | |
|---|---|---|--|--|
| | and | | | |
| | ON/OFF switch and overload protection, (2) pressure relief valve adjustable from 0 – 60 bar, (3) oil reservoir, ≥ 5 litres capacity having sight glass, drain screw, air filter, and P and T ports. | | | |
| | II. Pressure relief valve pilot-operated | 1 | | |
| | III. Drip tray, steel size 1160 mm x 760 mm. | 1 | | |
| | IV. Pressure Gauge Glycerin-damped, Indication range of: 0 – 100 bar | 1 | | |
| | V. Four-Way distributor with five ports, equipped with a pressure gauge | 1 | | |
| | VI. Double acting hydraulic cylinder with a control cam, Piston diameter 16 mm, Piston rod diameter 10 mm, Stroke length 200 mm. | 1 | | |
| | VII. Suitable Weight for vertical loading of hydraulic cylinder | 1 | | |
| | VIII. Mounting kit for weight for realizing pulling and pushing load. | 1 | | |
| | IX. 3/2-way directional control valve with hand lever actuation. | 1 | | |
| | X. 4/2-way directional control valve with hand lever actuation. | 1 | | |
| | XI. 4/3-way directional control valve closed-centre position, with hand lever actuation. | 1 | | |
| | XII. Non-return valve. | 1 | | |
| | XIII. Pilot-operated check valve pilot to open. | 1 | | |
| | XIV. One-way flow control valve with integrated check valve. | 1 | | |
| | XV. T-Connector with self sealing coupling nipples (2 Nos.) and quick coupling socket (1 No.). | 2 | | |
| | XVI. Profile plate, Anodized Aluminum, 1100x700 mm, with carriers, mounting frames and mounting accessories (To be fitted onto the Hydraulic workstation) | 1 | | |
| 7 | Hydraulic Workstation with 40 square mm aluminum profile legs, wooden work surface, and one pedestal drawer unit having 5 drawers, each with handles and individual locks, on metallic full panel drawer slide: (1) Work Table – Size (Approx.) L1200mm x W900mm x H900mm, with four castor wheels including two lockable wheels at the front side, (2) Drawer – Size (Approx.) – L460mm x W495mm x H158mm each, and overall size of Drawer unit (Approx.) - L470mm x W495mm x H825mm and (3) Drawer slide height (Approx.) 85mm. | 1 | | |
| 8 | Cut-section models for hydraulic components | 1 | | |


 (Kapil p. Aigal)
 Principal