



Government of Goa
DIRECTORATE OF SKILL DEVELOPMENT & ENTREPRENEURSHIP
MARGAO GOVERNMENT INDUSTRIAL TRAINING INSTITUTE

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Ref No. : ITI/MRG/STR/F-42/2021-22/1153

Date: 28/12/2021.

To,

O/c.

Sub: - Quotation for supply of Pneumatic & Hydraulic Trainer Kit req.

Sir,

Quotations are invited in sealed envelopes for the supply of the stores at Margao Government I.T.I. Borda Margao-Goa. As per the specification and quantity mentioned below.

Sr. No.	Description of the Item	Quantity Required
01)	ANNEXURE I & II ENCLOSED	

The terms and conditions as applicable for the supply of stores are as follows:-

1. The materials will have to be supplied within the period of 15 days from the date of placing of the supply order.
2. The CST, Octroi, Sales Tax, 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 price offered are inclusive of all taxes whatever may be.
3. The rate quoted shall be inclusive of packing and forwarding charges and freight paid for destination I.T.I. Margao Goa.
4. The make, Brand, Model, etc. giving the details of the material quoted for should be mentioned in the quotation or else the item quoted shall be liable for rejection.
5. The printed terms and conditions in your quotation will not be binding unless specially referred to in the covering letter.

6. The quotation shall be valid for 90 days from the date of the opening of the same.
7. The store will be inspected for acceptance and will be accepted if it confirms to the specification mentioned in the supply order. (The stores can be inspected in your presence or in the presence of your representative).
8. In case of the rejection of the stores for not confirming to specification in the supply order, it will be the sole responsibility of the supplier to make arrangement to collect the same at his own cost and risk immediately.
9. This office reserves the right to accept or reject any or all the quotations without assigning any reason thereof.
10. In the event of any disputes arising out in the connection it shall be subject to the jurisdiction of DSDE at Panaji-Goa.
11. In case the payment is desired outside the state by a Demand-Draft, the bank commission shall have to be borne by the supplier.
12. The material supplied, as the case may be, should carry a warranty/guarantee against the defect for a period of 12 months or more from the date of acceptance.
13. The cost of installation, commencing, and demonstration if any shall be mentioned separately along with the item in case of tools and equipment.
14. The Instruction/operating manual shall be furnished along with the equipment as the case may be.
15. The Quotations will be evaluated as a single package for award of contract.
16. The quotations may be sent in sealed cover or by return email super scribing **"QUOTATION NUMBER & SUBJECT"** so as to reach this office on or before **3.00 P.M. on 10/01/2022** which will be opened on the same day at **3.30 P.M.**

Yours faithfully,


Ravikiran D Pawaskar
(Principal)

ANNEXURE I

Sr.No	Items Description	Required Quantity	Unit	Unit Rate	Amount
1	Compressor unit suitable for Pressure: 8 bar, Delivery: 50 lpm (or more), Reservoir capacity: 24 Litres (or more), 230V, 50 Hz, with pressure regulator and water separator	1	No.		
2	Pneumatic Trainer Kit, each consisting of the following matching components and accessories: 1 set	1	Set.		
	I. Single acting cylinder Max. stroke length 50 mm, Bore dia 20 mm	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), 5 A	1			
	XVI. 3/2-way single solenoid valve with LED	1			
	XVII. 5/2-way single solenoid valve with manual override and LED	1			
	XVIII. 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 Aluminum set 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	no.		
4	Carrier for mounting components, such as PB & relay boxes	1	no.		
5	Cut section model for pneumatic components	1	No.		


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ANNEXURE II

Sr.No	Items Description	Required Quantity	Unit	Unit Rate	Amount
	Hydraulic Trainer Kit, each consisting of the following matching components and accessories:	1	Set.		
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 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	1			
	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, Anodised Aluminium, 1100x700 mm, with carriers, mounting frames and mounting accessories (To be fitted onto the Hydraulic workstation)	1			
2	Hydraulic Workstation with 40 square mm aluminium 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	no.		
3	Cut-section models for hydraulic components	1	Set.		


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 28/12/2021