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## Technical Specifications

Item	Specification	Statement of Compliance
		<i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i>

### Procurement of Electro-Pneumatic Trainer

Item No.	Specification	Unit	Qty.	Brand	Statement of Compliance
1	Electro-pneumatic set with PLC and Laptop	set	1		
	<ul style="list-style-type: none"><li>• filter regulator unit with shut off valve (1 unit)</li><li>• check valve, will include a 6mm fittings check valve (12 units)</li><li>• single acting cylinder, rod normally retracted, 20mm dia., 50mm stroke (1 unit)</li><li>• double acting cylinder with 2 wire reed switches, stainless (1 unit)</li><li>• double acting cylinder with 2 wire reed switches and speed controller, 20mm dia., 100mm stroke, stainless (1 unit)</li></ul>				



	<ul style="list-style-type: none"> <li>• double acting cylinder with 3 wire reed switches, 20mm dia, 100mm stroke, stainless (1 unit)</li> <li>• rod less cylinder, 10 mm dia., 100 mm stroke, stainless (1 unit)</li> <li>• rotary actuator (1 unit)</li> <li>• 3/2 way, NC spring return valve with green color push button, grade level push button, normally in closed position, spring return (1 unit)</li> <li>• 3/2 way, NC, spring return valve with red color push button, grade level push button, normally in close position, spring return (1 unit)</li> <li>• 3/2, NC, spring return valve, with black color push button, grade level push button, normally in closed position, spring return (2 units)</li> <li>• 5/2 way spring return valve, with push button (1 unit)</li> <li>• 3/2 way emergency stop push button (1 unit)</li> <li>• 5/2 way valve with detent twist selector (2 units)</li> <li>• 3/2 way, NC, spring return valve with roller lever-left direction actuation, mechanical roller action (2 units)</li> <li>• 3/2 way NC spring return with one way roller lever-left direction actuation, one way roller lever (1 unit)</li> <li>• 3/2 way, NC spring return valve with one way roller-right direction actuation, one way roller lever (1 unit)</li> <li>• 3/2 way, air operated, balanced poppet valve (2 units)</li> <li>• 5/2 way single air operated spring return valve (2 units)</li> <li>• 5/2 way double air operated valve with individual supply and exhaust spacer assembly (1 unit)</li> <li>• 5/3 way close and exhaust center air operated valve, three position with spring centering (1 unit)</li> <li>• shuttle valve with simultaneous valve with logic function "OR" (4 units)</li> <li>• two pressure valve with a single simultaneous valve with an "AND" logic function (2 units)</li> </ul>				
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	<ul style="list-style-type: none"> <li>• miniature pressure regulator, operating pressure 10 bars which includes single scale (0-1 Mpa/0-140 psi) (1 unit)</li> <li>• quick-exhaust valve, with free exhaust valve with silencer (1 unit)</li> <li>• in line with two single direction speed controllers, operated manually (1 unit)</li> <li>• pressure gauge, with single entry and single scale (0-1 Mpa) (1 unit)</li> <li>• pneumatic preset counter with pre selection and reset facility, automatic or manual pre selection (1 unit)</li> <li>• electrical pressure switch with changeover contact pressure switch function included in a pressure gauge, (0 to 10 bars) (1 unit)</li> <li>• 3/2 way NC air operated time delay valve (1 unit)</li> <li>• pneumatic indicator unit, with red optical gauge with a display angle of 180 degrees (1 unit)</li> <li>• white color polyurethane tubing (20m) (1 unit)</li> <li>• tube releasing tool (1 unit)</li> <li>• "Y" fitting for 6mm tube (10 pcs)</li> <li>• plugs fittings for 6mm tube (10 pcs)</li> <li>• paper holder attached in DIN-4 format on panel (1 unit)</li> <li>• Tee fittings, set of 10 one touch fitting for 6 mm tube (1 set)</li> <li>• plastic plug for plugging pressure outlets in 6 mm tube (1 set)</li> <li>• push button with 2 N.O. and 1 N.C contacts (2 units)</li> <li>• electrical relay with 3 N.O. and 1 N.C. contacts, 24 volts, 4mm safety terminals for use with quick connection wiring (15 units)</li> <li>• indicator (pilot, buzzer) which includes 4 pilots lights 24 volts DC and 1 buzzer, 24 volts DC,; supplementary terminals for power distribution; 4mm terminals for snap connection cable (1 unit)</li> <li>• electrical timer unit with 1 change over contact, 24 volts Time programmable between 0.1 s to 1 hr. (1 unit)</li> <li>• electrical pre-set counter unit, 24 volts (1 unit)</li> </ul>				
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	<ul style="list-style-type: none"> <li>• electrical limit switch with change-over contact-left direction actuation (2 units)</li> <li>• electrical selector switch, includes change over contact with normally open and normally closed contact (1 unit)</li> <li>• electrical limit switch with changeover contact- right direction actuation (2 units)</li> <li>• inductive proximity sensor, 24 volts, detection distance 5mm, M18 (1 unit)</li> <li>• capacitive proximity sensor, M18, capacitive sensor 24v, detection distance 8mm (1 unit)</li> <li>• optical proximity sensor, M18 reflection photo electric detector, 24 v, detection distance 100 mm (1 unit)</li> <li>• 3/2 way spring return solenoid operated valve, LED display and surge absorber (1 unit)</li> <li>• 5/2 way spring return solenoid operated valve, LED display and surge absorber (2 units)</li> <li>• 5/2 way double solenoid operated, LED display and surge absorber (1 unit)</li> <li>• 5/2 way double solenoid operated valve with push-locking knob style manual override, LED display and surge absorber (1 unit)</li> <li>• 5/2 way 1 single and 1 double solenoid operated valve, LED display and surge absorber (1 unit)</li> <li>• 5/2 way closed and exhaust center solenoid operated valve, LED display and surge absorber (1 unit)</li> <li>• cable test lead with 4mm plug (1 meter blue-7 pcs, 1 meter red- 14 pcs, 0.5 meter blue- 21 pcs, 0.5 meter red -70 pcs) (1 set)</li> <li>• electrical cable holder (1 unit)</li> <li>• electrical connector for solenoid valve, 24 volts connector with 2 pins for the solenoid valve (6 pcs)</li> <li>• reed switch for rod less cylinder, 24 volts DC, max. current of 100 mA, LED display (2 units)</li> <li>• reed switch for rotary actuator, 24 volts DC, max. current 100mA, LED display (2 units)</li> </ul>				
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	<ul style="list-style-type: none"> <li>• reed switch connector, 24 volts, max. current 100mA LED display (4 units)</li> <li>• electrical power supply, 230 VAC, output 24V DC, 4A (1 unit)</li> <li>• tube extractor (4 to 6 mm diameter) (1 unit)</li> <li>• electrical distribution unit (4 blocks of 4 x 4 mm interconnected terminals for snap connection cables (1 unit)</li> <li>• PLC training KIT (benchtop module which include OMRON CJ2M PLC with 16 I/O, Power Input: 100-240 volts, 24 volts DC power supply (1 unit)</li> <li>• Laptop, i3 processor (1 unit)</li> </ul>				
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