

**Delivery Locations**  
**Package No. HPSPDP-DOTE/26**  
**Microprocessor/ PLC controller based machines**

<b>Sr. NO.</b>	<b>Item Name</b>	<b>Govt. ITI Shahpur</b>
1	Microprocessor/PLC controller Automatic screw type Injection Moulding Machine of 80-85 tons capacity	1
2	Microprocessor/PLC controller based Automatic compression moulding machine of 100 tons capacity	1
3	Microprocessor/PLC controller based Automatic Extrusion Blow moulding machine of 2 litres capacity	1

# Schedule of supply

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## 1. List of Goods and Related Services

**Package Name:** Supply of Microprocessor/ PLC controller based machines for Industrial Training Institutes to enhance technical and vocational skills among the youth of Himachal Pradesh. HPSDP-DOTE/26; RFQ No. 18/2022

<b>Lot No: Not Applicable</b>									
<b>Lot Name: Not Applicable</b>								<b>Delivery Time (in days): not more than 60</b>	
<b>Item No</b>	<b>Name of Goods or Related Services</b>	<b>Description</b>	<b>Unit of Measure -ment</b>	<b>Quantity</b>	<b>Unit Price INR</b>	<b>Total price per item INR</b>	<b>Sales and other taxes per item</b>	<b>Total Price (Including GST)</b>	<b>Remarks</b> (Please mention Page Number of detailed information brochure having make and model no.)
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7=5*6</b>	<b>8=7*@GST%</b>	<b>9=7+8</b>	
1.	Microprocessor/PLC controller Automatic screw type Injection Moulding Machine of 80-85 tons capacity	Microprocessor/PLC controller Automatic screw type Injection Moulding Machine of 80-85 tons capacity, as per technical specifications	No.	1					
2.	Microprocessor/PLC controller based Automatic compression moulding machine of 100 tons capacity	Microprocessor/PLC controller based Automatic compression moulding machine of 100 tons capacity, as per technical specifications	No.	1					

3.	Microprocessor/PLC controller based Automatic Extrusion Blow moulding machine of 2 litres capacity	Microprocessor/PLC controller based Automatic Extrusion Blow moulding machine of 2 litres capacity, as per technical specifications	No.	1					
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## 2. Delivery and Completion Schedule

The delivery period shall start as of *date of Signing the Contract*

Item No	Description of Goods or Related Services	Delivery Schedule (Duration)	Location	Required Arrival Date of Goods or Completion Date for Related Services
1 To 3	As per Schedule 1 – List of Goods and Related Services	Within 60 Days from the Signing of the contract.	<b>As per delivery locations attached as Annexure-A</b>	Within 60 Days from the Signing of the contract.

### 3. Technical Specifications

Besides the supply of equipment, the bidder shall also carry-out required related services including unloading, installation & commissioning, after sales warranty & maintenance as well as the relevant handholding to the trainers of the ITI for proper usage and operations. The bidder shall do the necessary site preparation including electrical work, earthing, minor civil work, etc. as required for installation & commissioning of the equipment's/goods. While doing the site preparation the bidder shall ensure that aesthetics of the labs/workshops, IT Lab and the Library shall maintain/restored.

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of Equipment /parts
1.	Microprocessor/ PLC controller Automatic screw type Injection Moulding Machine of 80-85 tons capacity	<b>Screw Type Injection Moulding Machine :</b> - Capacity 80 to 85 T with the following minimum specifications: - Screw diameter (mm) :36 mm - Injection Pressure (bar) : 1,815 - Stroke Volume : 163 cm <sup>3</sup> - Screw Stroke : 160 mm - Max Injected Weight(GPPS) gm :155 - Injection Rate cc/s :141 - Plasticising rate(GPPS)@ speed g/s :17 - Screw Speed : 350 rpm - L/D Ratio :21.2 - Heating Capacity :8.9 KW - No of Heating Zones :5 - Nozzle Protrusion :45 MM - Nozzle Contact Force : 60 kN - Oil Tank capacity : 200 Ltr. - Hopper Capacity : 60 Ltr. <b>CLOSING UNIT</b> - Closing Force : 1000 KN	- Five point double clamping system of steel casting with steel link and steel bushes. - Mould opening & closing with programmable and independent strokes and speed. - Automatic lubrication system is toggle side clamping and injection strokes are monitored by linear transducers. - Single stroke hydraulic ejector. - Square tie bar distance with large mould height. - High tensile, hard chrome plated tie bar.	- One No. suitable mould - Other standard Accessories	- Standard	- User/Operating Manual - List of Service Centres in India - Warranty Certificate	- To be supplied at designated ITI's in Himachal Pradesh - Training as required by staff of ITI	- Two years from Date of Installation

		<ul style="list-style-type: none"> <li>- Mould Open Stroke : 350 mm</li> <li>- Mould Height :180-410 mm</li> <li>- Distance between Platens : 760 mm</li> <li>- Distance between Tie-Bars(hxv):410X410 mm</li> <li>- Clamping Platens(hxv):610X610 mm</li> <li>- Ejector Force :51 KN</li> <li>- Ejector Stroke :130 mm</li> </ul>	<ul style="list-style-type: none"> <li>- Electrical inter lock in front and rear safety guard.</li> <li>- Ceramic band heaters.</li> <li>- High torque hydraulic motor for screw drive.</li> <li>- Automatic suck back system.</li> <li>- Two stage injection speed.</li> <li>- Gas nitrided screw barrel with standard L/D ratio.</li> <li>- Injection movement is actuated by two hydraulic cylinder.</li> <li>- Stainless steel hopper with magnetic grill with swivelling system to permit easy change of material.</li> <li>- Limit switches controlled operation, for stroke control.</li> <li>- MCB control for each heating zone separately.</li> <li>- Star delta starter for pump motor.</li> <li>- Overload</li> </ul>					
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			protection for pump motor. - Centralized automatic lubrication system. - Air injector with timer.					
2.	Microprocessor/ PLC controller based Automatic compression moulding machine of 100 tons capacity	<b>Microprocessor / PLC controller based Automatic compression moulding machine :</b> - Capacity Minimum : 100 Tons;4 pillars type up stroking ram movement. - Minimum Stroke Length : 510 mm - Minimum Shut Height :190 mm - Minimum Platen size :600 x 600 mm - Electrical heating load of the platens: 6 KW / Platen - Operation: PLC based touch type screen.	- Standard	- one no. suitable mould - Other standard Accessories	- Standard	- User/Operating Manual - List of Service Centres in India - Warranty Certificate	- To be supplied and installed at designated ITI's in Himachal Pradesh - Training as required by staff of ITI	- Two years from Date of Installation
3.	Microprocessor/ PLC controller based Automatic Extrusion Blow moulding machine of 2 litres capacity	<b>Automatic Extrusion Blow Moulding Machine</b> - Capacity: 1 to 2 litre - Screw Dia. (mm): 32-50 - Screw Speed: 1-60 m/sec - Platen Length Size: 200-610 mm - Platen Width Size: 200-610 mm	- A Sturdy & heavy body made up of cast steel, hardened & chrome plated with a heavy base enough to withstand impact & load and having digital temperature controller	- One No. Suitable mould - Other standard Accessories	- Standard	- User/Operating Manual - List of Service Centres in India - Warranty Certificate	- To be supplied and installed at designated ITI's in Himachal Pradesh - Training as required by staff of ITI	- Two years from Date of Installation



## **4. Drawings**

*Not Applicable*