

**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

## Contents

1. List of Goods and Related Services.....	2
2. Delivery and Completion Schedule.....	4
3. Technical Specifications.....	5
4. Drawings.....	8

## 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. 03/2022

<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

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 - Mould Open Stroke : 350 mm - Mould Height :180-410 mm - Distance between Platens : 760	- 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. - Electrical inter lock in front and rear safety guard.	- 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

		mm - Distance between Tie-Bars(hxv):410X410 mm - Clamping Platens(hxv):610X610 mm - Ejector Force :51 KN - Ejector Stroke :130 mm	- Ceramic band heaters. - High torque hydraulic motor for screw drive. - Automatic suck back system. - Two stage injection speed. - Gas nitrided screw barrel with standard L/D ratio. - Injection movement is actuated by two hydraulic cylinder. - Stainless steel hopper with magnetic grill with swivelling system to permit easy change of material. - Limit switches controlled operation, for stroke control. - MCB control for each heating zone separately. - Star delta starter for pump motor. - Overload protection for pump motor. - Centralized					
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			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*