

**Delivery Locations**  
**Package No. HPSPDP-DOTE/27**  
**Extruding Machines**

<b>Sr. No.</b>	<b>Item Name</b>	<b>Govt. ITI Shahpur</b>
1	Extruder of 40kg/hr Plasticizing capacity with re-processing die and granulator/cutter for PE & PP.	1
2	Pipe extruder of Minimum 40 kg/hr. Plasticizing capacity with pipe die 0.5 inch and 1 inch	1

# Schedule of supply

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# 1. List of Goods and Related Services

**Package Name:** Supply of Extruding machines for Industrial Training Institutes to enhance technical and vocational skills among the youth of Himachal Pradesh.  
**HPSDP-DOTE/27; RFQ No. 04/2022**

Lot No: Not Applicable									
Lot Name: Not Applicable								Delivery Time (in days): not more than 60	
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity	Unit Price INR	Total price per item INR	Sales and other taxes per item	Total Price (Including GST)	Remarks (Please mention Page Number of detailed information brochure having make and model no.)
1	2	3	4	5	6	7=5*6	8=7*@GST%	9=7+8	
1.	Extruder of 40kg/hr Plasticizing capacity with re-processing die and granulator/cutter for PE & PP.	Extruder of 40kg/hr Plasticizing capacity with re-processing die and granulator/cutter for PE & PP, as per technical specifications	No.	1					
2.	Pipe extruder of Minimum 40 kg/hr. Plasticizing capacity with pipe die 0.5 inch and 1 inch	Pipe extruder of Minimum 40 kg/hr. Plasticizing capacity with pipe die 0.5 inch and 1 inch, as per technical specifications	No.	1					

## 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 2	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.	Extruder of 40kg/hr Plasticizing capacity with re-processing die and granulator/cutter for PE & PP.	<b>Extruder of 40 kg/hr Plasticizing capacity with re-processing die and granulator/cutter for PE &amp; PP.</b> with the following minimum specifications: - Output: 40Kg /hr - Screw dia x L/D : 40 x 24mm - Control : Through Variable Frequency AC Drive - Speed reducer type : Helical gear box with inbuilt thrust bearing, - Feed section : Grooved sleeve - Thrust capacity (Dynamic) : 397KN - Lubrication : Sump type - Power transmission :Through pulley and V–belts - Hopper Capacity : 35 litre. , Stainless Steel - Material for screw and barrel : Nitralloy steel - Barrel heating load : with ceramic heaters) - Barrel cooling : 1 No. cooling blower - Screen Pack : Cylindrical screen pack with strainer - Heating load : with ceramic heaters) - Temperature controllers : Digital PID controllers, Range0- 400°C. - A motorized cutter with motor for PE & PP	<b>Controls are housed in the cabinet including:-</b> - PID temperature controllers, each with a built in indication to specify the deviation of any zone from the set temperature. - Ammeter for indicating heating load of any individual zones. - Screw speed indicator. - Main isolator (On/Off) switch. - Other necessary electrical components like MCBs, Contactors, Relays, Push Buttons (On/Off), etc. - "PID" thermo controller with "SCR" output temperature systems to minimize power consumption and maintain temperature levels - High efficiency	- Pair of compression plates of diameter: 120 mm - Two no Ceramic Band Heater for barrel - 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

			driving motor and gears.					
2.	Pipe extruder of Minimum 40 kg/hr. Plasticizing capacity with pipe die 0.5 inch and 1 inch	<p><b>Pipe extruder of Minimum 40 kg/hr. Plasticizing capacity with pipe die 0.5 inch and 1 inch:</b> with the following minimum specifications;</p> <ul style="list-style-type: none"> <li>- Maximum output: 40Kg/hr</li> <li>- Screw dia x L/D Ratio : 65mm, 28:1</li> <li>- Screw Speed Range : 14 - 140rpm</li> <li>- Barrel Heating : Ceramic Band Heaters</li> <li>- Heating load:10.5Kw, No. of zones : 5</li> <li>- Barrel Cooling : Provided in 5 zones each by means of 0.18 Kw, having auto on-off arrangement.</li> <li>- Feed system: Hopper of 125 litr. capacity.</li> <li>- Main motor rating :AC Motor,</li> <li>- Drive : AC variable frequency drive</li> </ul> <p><b>DIE HEAD</b> Pipe dia range : 20 to 50 mm No. of heating zones : 5</p> <p><b>VACUUM SIZING TANK</b> Cross Section of Tank Profile Octagonal</p> <ul style="list-style-type: none"> <li>- Standard Pipe dia range :20 – 110mm;</li> <li>- Length of cooling section : 6000mm</li> <li>- Through Size: 325 x 350mm;</li> <li>- Vacuum Pump, Spray Pump</li> <li>- Centre height of work: 1150mm</li> </ul> <p><b>TUBE TRACTION UNIT.</b> - Pipe size :20- 110 mm; No. of Tracks :2; Length of contact: 800 mm - Operating distance of grips Min. 0 mm, Max. 250 mm</p> <p><b>TUBE CUTTING UNIT.</b> - Pipe dia range :20 - 110 mm ; Blade dia : 350 mm ; Trolley stroke : 1100 mm - No. of cuts :12; Cutter, Trolley Retraction Pneumatic cylinder 50x1200mm</p> <p><b>UTILITIES REQUIRED</b> - Compressed Air : 2.5 m3/hr. at 7 Bar;</p>	<ul style="list-style-type: none"> <li>- Screw &amp; Barrel material Nitride hardened, ground and polished.</li> <li>- Barrel Single piece, cylindrical type with central feed opening</li> <li>- Feed section should have jacket type construction for water cooling.</li> <li>- Glass windows for visual inspection and chute arrangement provided.</li> <li>- Transmission system By V belts from main motor to helical gear box.</li> <li>- Safety guards should be provided.</li> <li>- CONTROL SYSTEM Control Cabinet fabricated from steel sheets mounted on a sturdy fabricated frame.</li> <li>- <b>Controls are housed in the cabinet including:-</b></li> <li>- PID temperature controllers, each with a built in indication to specify the deviation of any zone from the set temperature.</li> <li>- Ammeter for</li> </ul>	<ul style="list-style-type: none"> <li>- 20 meter high pressure pipe</li> <li>- Other standard accessories</li> </ul>	- Standard	<ul style="list-style-type: none"> <li>- User/Operating Manual</li> <li>- List of Service Centres in India</li> <li>- Warranty Certificate</li> </ul>	<ul style="list-style-type: none"> <li>- To be supplied and installed at designated ITI's in Himachal Pradesh</li> <li>- Training as required by staff of ITI</li> </ul>	<ul style="list-style-type: none"> <li>- Two years from Date of Installation</li> </ul>

		<ul style="list-style-type: none"> <li>- Cooling Water : 6.6 lps (22m head) 15 °C</li> <li>- Chilling Plant : 2.5 TR;</li> <li>- Electrical Power Supply : 415V, 3 Phase, 50 Hz</li> <li>- Voltage Stabilizer of suitable capacity.</li> </ul>	<p>indicating heating load of any individual zones.</p> <ul style="list-style-type: none"> <li>- Screw speed indicator.</li> <li>- Main isolator (On/Off) switch.</li> <li>- Other necessary electrical components like MCBs, Contactors, Relays, Push Buttons (On/Off), etc.</li> <li>- "PID" thermo controller with "SCR" output temperature systems to minimize power consumption and maintain temperature levels</li> <li>- High efficiency driving motor and gears.</li> </ul>					
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## **4. Drawings**

*Not Applicable*