

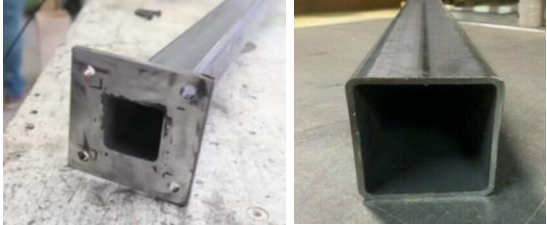


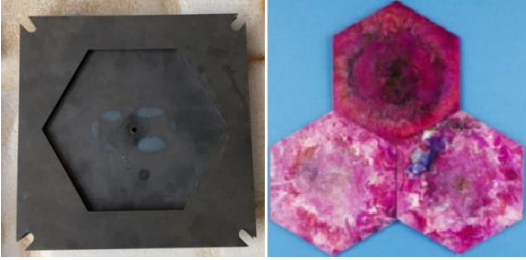






Procurement of recycling equipment (Extruder, and moulds compatible to the extruder)

SI.No	Item Name	Description	Sample Picture
1	V4 Extruder machine (Please see Annex 1 for detailed specs attached below)	Recycling Extruder machine for processing plastics	
2	Bricks mould 10x6x9 inches	Mould to create plastic bricks 10"x6"x9"	
3	Beam Mould 4x 4 inches Length 5ft	Mould to create 4"x4" eco beams Length 5ft	
4	Beam Mould 2x4 inches Length 5ft	Mould to create 2"x4" eco beams Length 5ft	
5	Beam Mould 2x2 inches Length 5ft	Mould to create 2"x2" eco beams Length 5ft	

<p>6</p>	<p>Carabineer Mould</p> <p>300mm x 300 mm x 18 mm</p>	<p>Mould for creating carabineers</p> <p>300mm x 300 mm x 18 mm</p>	
<p>7</p>	<p>Hex tiles mould</p> <p>8mm x 140mm x 140mm</p>	<p>Mould for creating hexagonal tiles</p> <p>8mm x 140mm x 140mm</p>	
<p>8</p>	<p>Coaster Mould</p> <p>8mm x 140mm x 140mm</p>	<p>Mould for creating coasters</p> <p>8mm x 140mm x 140mm</p>	
<p>9</p>	<p>Eco poles</p> <p>Length: 5ft</p> <p>Diameter: 4inch</p>	<p>Mould for creating eco poles</p> <p>Length: 5ft</p> <p>Diameter: 4inch</p>	
<p>10</p>	<p>Rural mould 15cm rural</p>	<p>Mould for creating scale (15 cm rural)</p>	
<p>11</p>	<p>T-shirt button mould 13mm x 20mm</p>	<p>Mould to create 4 holes t-shirt button</p>	

Annex1: Detailed specification of Extruder Machine



Figure 1 V4 EXTRUSION MACHINE SYSTEM

Techno-Commercial Scope for Extrusion PROMachine

- DESIGN PARAMETERS WITH STANDARD SUPPLY:
 - 1) 790 mm / 30 D / 3 HP Smooth Screw extruder - HDPE/PP/LDPE/PS/PET: 1 nos.
 - 2) PLC Based Process Control Panel synchronized by one master control: 1 nos.

- SPECIFIC DATA
 - 1) Material to be processed: Recycled HDPE/PP/LDPE/PS Grinded Scrap
 - 2) Size to be manufactured: Upto 5ft Length
 - 3) Screw RPM: 70/Max.
 - 4) Screw size: L- 790 mm, OD - 30 mm
 - 5) Barrel Size: L- 578 mm, OD- 40 mm, ID- 30 mm
 - 6) Max. Extrusion Output: Max. 20-25 Kg/Hr. (Depending on the material)

- 7) Advanced extrusion control with optimized workflow to fill moulds
- 8) Total Connected Load: 8* kW (Approx.)

➤ MAIN EXTRUDER

- 1) Barrel Type: Smooth Feed Barrier type high speed design
- 2) Screw Barrel Material: EN 41B Nitro alloy steel duly gas nitride
- 3) Gear Reducer: Helical Gearbox with heavy duty thrust bearing
- 4) Main Motor: AC Motor 3HP With Frequency Drive
- 5) Barrel Heating Zones: 3 heating Zones (Coil heaters with Ceramic coating for high safety) Barrel Heating Loads: 4 kW.
- 6) Hopper Loader: Advance Inlet Hopper System with safety cage.
- 7) Structure: MS fabricated heavy-duty structure made from angles, channels and Covered with sheet

➤ PROCESS CONTROL PANEL

- 1) Temp. Controllers: PID Controller with Auto tuning & dual display
- 2) MCB: Reputed make MCB inline with every heating zone supply
- 3) Other Electrical Outfits: Amp. Meter, Contactors, Synchronization card, standard cord wiring with PVC conduct channel framing.
- 4) Phase Synchronizer and Over Voltage Protection as per CE Standard.

Machine's Actual images in Parts

