### Name of Project Facility for Manufacturing of Blown Film (BOPP)

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Facility for Manufacturing of Blown Film (BOPP)</th>
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<tr>
<td>Project Location</td>
<td>Gelapukhuri, Tinsukia, Assam</td>
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<tr>
<td>Area Requirement</td>
<td>15,000- 20,000 sq ft</td>
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| Approx. Project cost| Extruder: 40mm: INR 25-30 lakh  
  65mm :INR 45-50 lakh |
| Project Scale | Capacity :Machine output rate: 15-20 Kg/hr |
| Process | Manufacturing  
  • Extruder  
  • Die Head  
  • Bubble  
  • Cooling system  
  • Nip Roller  
  • Collapsible Frame  
  • Winder  
  • Corona discharge |

**Process**

PP is first melted by subjecting it to heat and pressure inside the barrel of an extruder and finally forcing the melt through a narrow slit in a circular die. The resulting thin film has a form of a tube, also called a “bubble” (blown film). As the film comes out of the die, it is cooled and then rolled up on a core.

Air is introduced in the center of die to blow up the tube like a balloon.

Air ring blows onto the hot film to cool it from inside and outside of the tube. The tube passes through nip rolls where it is flattened.

Collapsed tube is taken back down the extrusion tower via more idler rollers. On winder the tube or film is wound into rolls.

| Utilities | Power Requirement: 40 mm dia: 30 KW  
  65mm dia : 50 KW |
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<tr>
<td>Manpower Requirement</td>
<td>14 workers</td>
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<td>Nodal Agency</td>
<td>Assam Industrial Development Corporation (AIDC)</td>
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