

Manufacturing of Blown Film (BOPP)

| Name of Project | Facility for Manufacturing of Blown Film (BOPP) |
|----------------------|---|
| Project Location | Gelapukhuri, Tinsukia, Assam |
| Area Requirement | 15,000- 20,000 sq ft |
| 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 | <p>Manufacturing</p> <ul style="list-style-type: none">• Extruder• Die Head• Bubble• Cooling system• Nip Roller• Collapsible Frame• Winder• Corona discharge <p>Process</p> <p>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.</p> <p>Air is introduced in the center of die to blow up the tube like a balloon.</p> <p>Air ring blows onto the hot film to cool it from inside and outside of the tube.</p> <p>The tube passes through nip rolls where it is flattened.</p> <p>Collapsed tube is taken back down the extrusion tower via more idler rollers.</p> <p>On winder the tube or film is wound into rolls.</p> |
| Utilities | Power Requirement: 40 mm dia: 30 KW 65mm dia : 50 KW |
| Manpower Requirement | 14 workers |
| Nodal Agency | Assam Industrial Development Corporation (AIDC) |