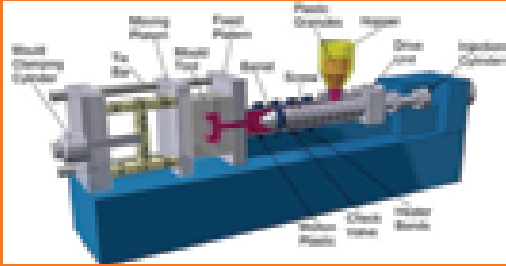


Manufacturing of Plastic Crates

Name of Project	Facility for Manufacturing of Plastic Crates
Project Location	Gelapukhuri, Tinsukia, Assam
Area Requirement	15,000 – 20,000 sq ft (Bakery and Dairy Crate) 20,000- 25,000 sq ft (Fishery Crate)
Approx. Project cost	Total cost : Machinery and Mould cost for Bakery Crate (20 L) and Dairy Crate (10-12L) : INR 106-125 lakh Machinery and Mould cost for Fishery Crate (80L): INR 126-157 lakh
Project Scale	Capacity: Production capacity per day @ 120 sec for single crate, for 22 hours) Bakery Crate: 1,98,000 Components (annually -300 days) Dairy Crate: 1,98,000 Components (annually -300 days) Production Capacity per day for Fishery Crate @140 seconds for single crate, for 22 hours Fishery Crate: 1,69,500 Components (annually -300 days)
Process	<p data-bbox="504 656 734 684">Process Flow Chart</p> <div data-bbox="743 673 1705 980" style="border: 1px solid black; padding: 10px;"> <pre> graph TD A[PP + Colourant (Optional)] --> B[Fixing of Mould in Machine] B --> C[Injection of Molten PP material into the mould] C --> D[Cooling and Opening of Mould] D --> E[Ejection of Component & Packing] </pre> </div> <p data-bbox="504 979 772 1007">Manufacturing Process</p> <p data-bbox="504 1007 1727 1086">In this injection moulding process, the cold, hard plastic material is loaded into the machine via hopper, plasticized by heating and then injected under pressure into a cold mould, where it sets and is then ejected as the finished products.</p> <p data-bbox="504 1086 1460 1114">The three successive main stages that are followed in the procedure of manufacturing</p> <ul data-bbox="504 1114 1004 1194" style="list-style-type: none"> Feeding of PP raw material into the hopper Injection moulding process Finishing of the moulded product <div data-bbox="1012 1141 1520 1404" style="text-align: center;">  </div>
Utilities	<p data-bbox="504 1414 894 1577">For Bakery & Dairy Crates Electricity (Connected Load) 97 kW Water about 150 litre/min For Fishery Crates Electricity (Connected Load): 173 kW Water about 200 litre/min</p> <p data-bbox="504 1601 1319 1633">Water will be circulated through fixed tank capacity is 15,000-20,000 litre</p>
Manpower Requirement	13 workers for 1 shift
Nodal Agency	Assam Industrial Development Corporation (AIDC)