**Manufacturing Process**

**1. Product Design & Development**

* **Concept Creation.**
* **3D Modelling & Prototyping.**
* **Tooling Design**

**2. Raw Material Procurement**

* **Sourcing.**
* **Vendor Quality Check.**
* **Storage.**

**3. Moulding Processes**

**A. Injection Moulding**

**B. 2 Stage Stretch Blow Moulding**

***C. ISBM – Injection Strech Blow Moulding***

***D. EBM – Extrusion Blow Moulding***

***E. Compression Moulding***

**4. Surface Treatment**

* **UV Sterilization or Plasma Treatment**.
* **Polishing/Deburring.**

**5. Printing & Branding**

* **Screen Printing / Pad Printing / Heat Transfer Printing**
* Baby-safe inks are used for markings, logos, and graduations.

**6. Assembly**

* All parts (bottle, cap, nipple, handles, valves, etc.) are assembled in a **dust-free cleanroom**.
* **Ultrasonic Welding or Snap-fit** techniques used where applicable.

**7. Quality Control (QC)**

* **In-Process Checks:** Dimensional, functional, and cosmetic checks during each stage.
* **Final Inspection:** Leak test, nipple flow test, drop test, sterilization compatibility.
* **Batch Coding & Traceability** maintained.

**8. Cleaning & Sterilization**

* **Optional: UV or Steam Sterilization** of final products before packing.

**9. Packing**

* **Primary Packaging:** Hygienic polybags or blister packs or mono cartons.
* **Secondary Packaging:** Branding cartons or export-ready boxes.
* **Barcoding, MRP, and batch coding**.

**10. Dispatch & Logistics**

* Inventory is maintained in a **climate-controlled warehouse**.
* Orders are packed, palletized, and dispatched with shipping documentation.

**Optional:**

* **ISO/GMP Certification Compliance**
* **Third-Party Inspection (if requested by buyers)**
* **Sustainability Measures**: Use of recyclable materials, energy-efficient machines