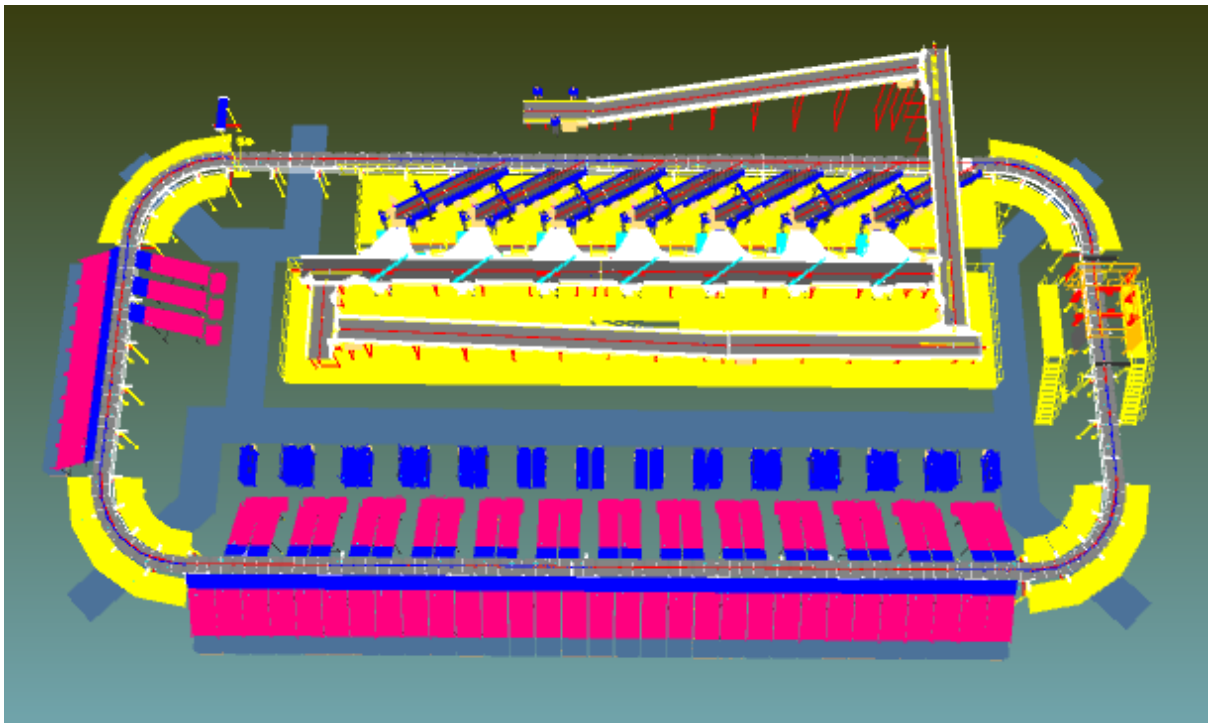
7. Proposed System Description

7.1 Objective

The purpose of this proposal is to present the design, manufacturing, installation, commissioning, testing, and acceptance testing of the Loop CBS for sorting shipment & boxes as per VINTED Requirement

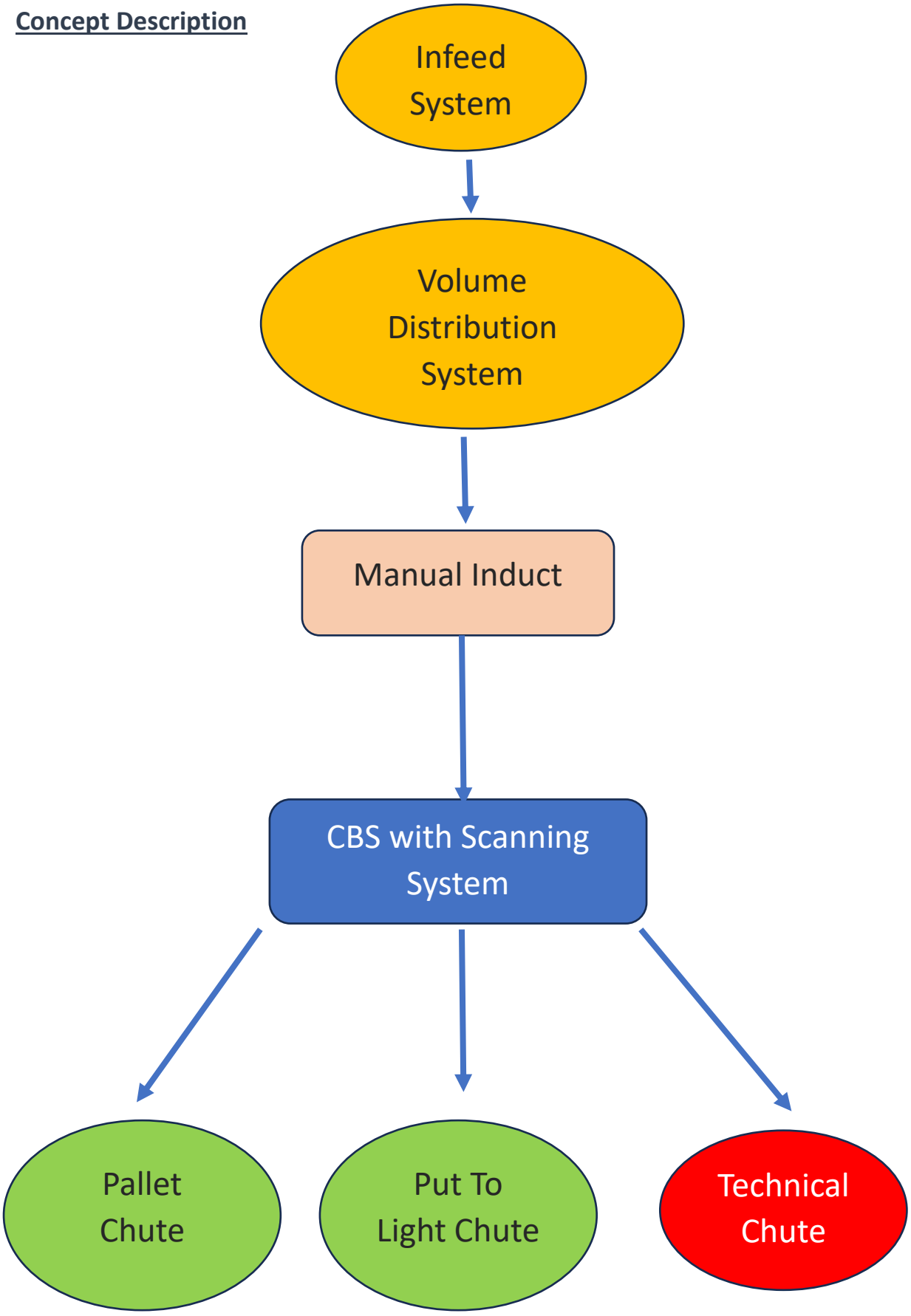
7.2 Summary of the System



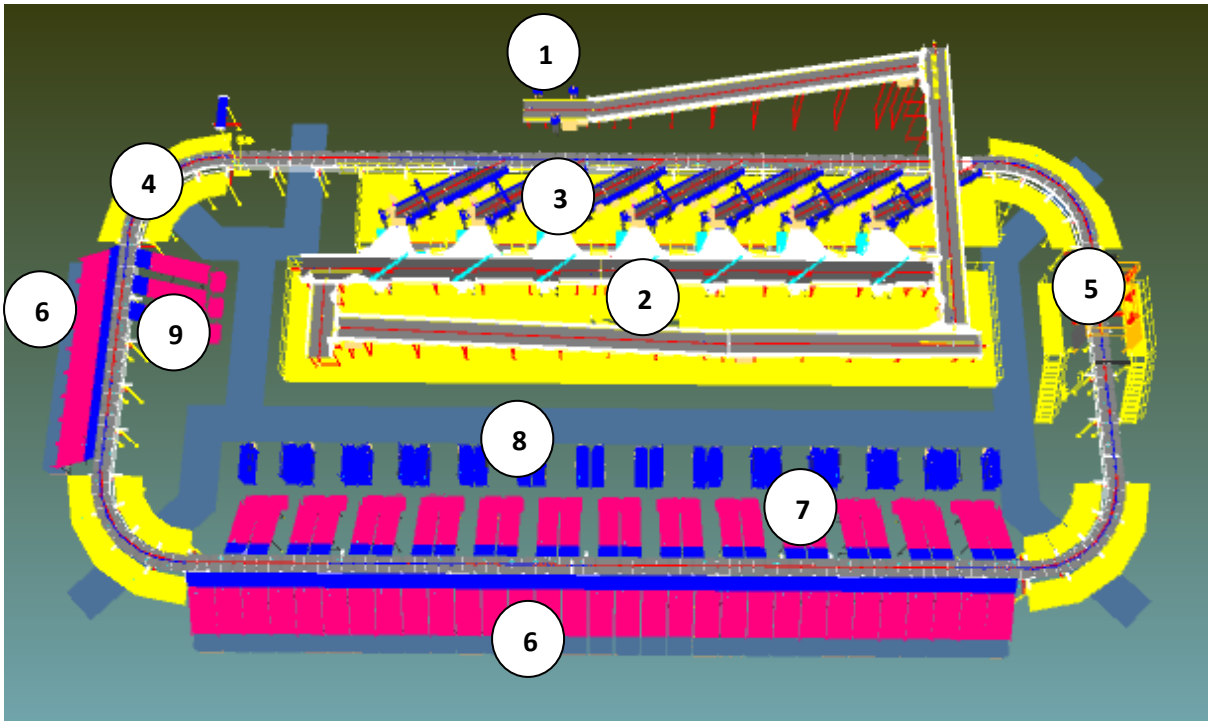
Process flow:

1. **Infeed System: -** Shipments are placed in bulk manner on the infeed conveyor lines. These shipments are then transported upward via an inclined conveyor to VDS Conveyor .
2. **Volume Distribution System:** Shipments from the VDS Conveyor will be evenly distributed to the VDS chute located near the induct line, using a VDS Arm that operates on electrical arm actuation technology
3. **Manual Induct:** The operator will collect the parcel from the VDS chute and place it on the loading conveyor of the manual induct, ensuring that the barcode is not facing the bottom side
4. **Loop CBS:** - Once shipments enter the Loop CBS, the Cross-Belt Sorter efficiently sorts them into the appropriate output chutes using VINTED's sorting logic.
5. **Scanning & Dimensioning System.** In the proposed solution 5 Side scanning and Dimensioning system are planned on the Cross Belt Sorter system.
6. **Chutes: -** The shipments are discharged into below type of chutes:
   a. Pallet Chute: For Sorting the shipment in to pallets to other hubs
   b. Put to Light Chute: For sorting the shipment in to the bin from where the operator will do secondary sorting in the bags for last mile delivery
   c. Rejection/Technical Chute

8. Concept Description



9. Layout Overview



Legend

1. Infeed System
2. Volume Distribution System (VDS)
3. Manual Induct
4. Cross Belt Sorter
5. Scanning & Dimensioning System
6. Pallet Chute
7. PTL Chute
8. PTL Racks
9. Technical/Rejection Chute