



NIDO
BAJAJ



Case Study



Once a carton is placed on the moving conveyor and triggers the first retro reflective photoelectric switch, it triggers the camera. The camera dynamically captures an image of the parcel and extracts the barcode. This barcode is sent to the PLC, which is then sent to the SAP software for verification. Tower lights of 2-Tier and 4-Tier are added in the system to have a clear indication of the system. If any of the fail conditions are met, the carton stops at a predetermined fixed position. The 2-Tier is used for communication indication. When the communication between PLC and Camera or PLC and SAP is broken, a buzzer goes off and a red-light glows, depending upon situation, it either glows continuously or blinks repeatedly.

A 4-Tier light having lights as Red, Green, Amber and Blue signifies the following information

- a) Red light – No read, failed read, parcel rejected
- b) Green light – Parcel verified and approved
- c) Yellow light – No box present
- d) Blue light – Indication of SAP response to the PLC for every on-going parcel



HMI Control Panel

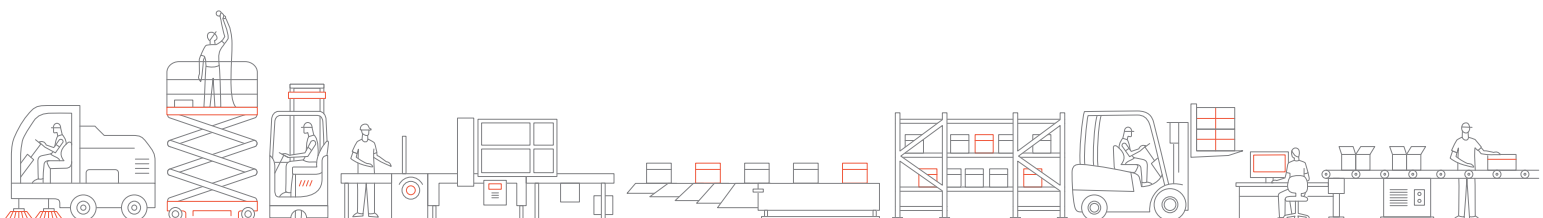
The boxes once passed are sent to the Four Stage Telescopic Belt Conveyor that is long and adjustable enough to reach inside the 16 feet container of the truck. The operator then simply has to pick the parcel off the TBC and place it inside the container. The TBC is 8 feet closed, and 12 feet long when fully extended.

NIDO Salient Features

- Customized Modular Design
- All data stored in BAJAJ Database
- No third-party software involved
- Pan India Service Support
- Within 24 hours service support



TBC unloading directly inside the container – Making it easy for the operator





NIDO Verification System in two outbound docks



NIDO Verification Conveyor with Control Panel

