

Case Study

Improving Accuracy in Oil Carton Packaging in Nepal

How a leading edible oil manufacturer reduced giveaway, improved efficiency, and achieved 100% carton-level weight verification with Prompt WeighSure.

Executive Summary

A leading edible oil manufacturer in Nepal needed to improve carton weight accuracy at the end of its packaging line. With approximately 14,400 cartons moving through production each day, manual inspection created risk of product giveaway, inconsistent quality checks, and unnecessary labour effort. By implementing the Prompt WeighSure 60 kg Online Checkweigher, the company moved to real-time, 100% carton-level verification and significantly improved packaging control, traceability, and operational efficiency.

Overfill reduction
from 1.2% to 0.2%

Daily savings of
2,160 kg of edible oil

20–25% improvement
in packaging line efficiency

Payback
in 45 days

Client Overview

A leading edible oil manufacturer based in Nepal has established a strong presence in the market through its commitment to quality, consistency, and operational excellence.

With growing demand and increasing production volumes, the company continuously focuses on improving efficiency across its manufacturing and packaging operations. As packaging volumes increased, maintaining accurate carton weights became increasingly important not only to control product giveaway but also to ensure product consistency, regulatory compliance, and customer satisfaction.

The Challenge

The manufacturer was handling approximately 14,400 cartons per day, equivalent to nearly 216 metric tonnes of product daily.

While the production process was operating efficiently, carton weight verification remained largely dependent on manual inspection. This created several operational challenges:

Product giveaway caused by carton overfilling

Risk of underweight cartons reaching the market

Labour-intensive weight verification process

Limited visibility into packaging performance

Additional rework and quality control efforts

With approximately 216 MT of product handled daily, every 1% reduction in overfill represented a substantial opportunity to improve profitability.

Root Cause

A detailed assessment of the packaging process revealed that the challenge was not the filling operation itself but the lack of a reliable end-of-line verification system.

Manual inspection could only verify selected cartons rather than every carton leaving the packaging line. As production volumes increased, maintaining consistent carton weights became increasingly difficult, while variations in filling accuracy often went unnoticed until after dispatch.

The company needed a solution capable of automatically verifying every carton in real time while keeping pace with production.

The Solution

To address these challenges, the manufacturer partnered with Prompt Weighing Solutions and implemented the Prompt WeighSure 60 kg Online Checkweigher at the end of the packaging line.

The company was not simply looking for a weighing system. It needed a solution capable of verifying every carton in real time, reducing product giveaway, and providing greater visibility into packaging performance without affecting production throughput.

Prompt WeighSure enabled the manufacturer to move from manual sampling to 100% carton-level verification, ensuring that every carton met predefined weight specifications before dispatch.



Why Prompt WeighSure ?

Seamless Integration	Integrated with the existing packaging line with minimal disruption to operations
Industrial Reliability	Designed for continuous operation in demanding manufacturing environments
Real-Time Visibility	Provided instant access to packaging performance and weight data
Digital Traceability	Enabled automatic recording and storage of weight data for audits and quality control
Ease of Adoption	User-friendly operation with minimal operator training requirements
Local Expertise & Support	Backed by Prompt's application knowledge, technical support, and responsive service network



Business Impact at a Glance

The implementation of Prompt WeighSure delivered measurable improvements across packaging accuracy, operational efficiency, cost control, and quality assurance.

By moving from manual inspection to 100% carton-level verification, the manufacturer gained tighter control over product giveaway, improved packaging performance, and enhanced confidence in every carton leaving the facility.

Area	Impact Achieved
Cost Savings	₹85 Lakhs – ₹1 Crore annual business benefit
Return on Investment	Complete payback achieved in approximately 45 days
Accuracy	Reduced overfill from 1.2% to 0.2%
Product Savings	2,160 kg of edible oil saved daily
Operational Efficiency	20–25% improvement in packaging line performance
Customer Satisfaction	90–95% reduction in weight-related complaints
Quality Assurance	100% carton-level weight verification
Labour Optimization	Reduced manual inspection and associated labour costs
Traceability	Real-time digital weight records for audit readiness

Ready to Improve Filling Accuracy?

Prompt WeighSure helps manufacturers reduce product giveaway, improve compliance, and increase profitability through accurate, reliable, and automated weight verification.