

PROCUREMENT OPTIMIZATION FOR CPG

Buy the right **commodity**, from the right **vendor**, at the lowest **landed cost**.

OptiSource is a bulk commodity procurement optimization solution built for CPG manufacturers. It turns plant-wise demand, vendor pricing, and freight rates into a ready-to-execute, lowest-cost vendor allocation — one commodity at a time.

Compatible with SAP Business AI Platform · CPG bulk raw materials

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VENDORS ON FILE

5

COMMODITIES IN SCOPE

6

MANUFACTURING PLANTS

3

PROCUREMENT CLUSTERS

Palm Oil · Refined Sugar · Wheat Flour · PET Resin · Corrugated Packaging Board

WHAT IT DOES

Four features, one procurement decision

Each feature closes a specific gap between raw vendor quotes and an executable purchase order — so a category manager gets a defensible, lowest-cost recommendation instead of a spreadsheet exercise.

1 Single-Commodity Workflow with Persistent Commodity Selector

A shell-bar selector scopes every screen — demand, vendors, shipping, results — to one commodity at a time, mirroring how procurement actually buys. This cuts data-entry errors and context-switching, letting category managers move between commodities in one click instead of a tangled spreadsheet.

2 CSV Upload for Vendor Costs & Shipping Rates

Vendor pricing and freight rates load via CSV instead of manual entry, auto-matching or creating vendors/plants and showing results instantly. This removes sourcing analysis' biggest bottleneck, keeping 15+ vendors' pricing current in seconds so decisions reflect today's market.

3 Constraint & Rule Modeling — Capacity, MOQ, Constraints, Diversification

Enforces vendor capacity, MOQ, lane-specific supply caps, and an optional minimum-2-vendor rule alongside price. This turns a theoretical cost comparison into an executable purchase plan and directly mitigates single-source risk on commodities exposed to weather and market volatility.

4 Automated Lowest-Landed-Cost Recommendation Engine

One click evaluates every vendor-plant lane and outputs a Vendor → Plant → Quantity award at minimum landed cost, with KPIs and an exportable table. This turns hours of spreadsheet work into a seconds-fast, auditable, execution-ready sourcing decision.

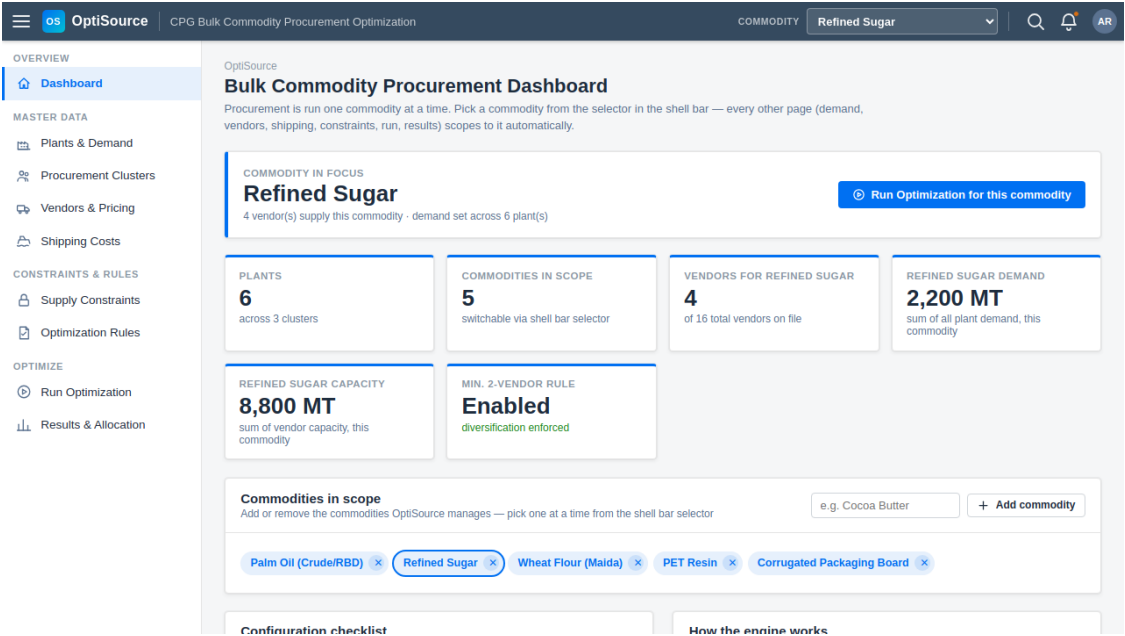
From vendor quote to purchase order, in one workflow

Select a commodity, upload cost and shipping data, review constraints, and run — OptiSource handles the rest.

INSIDE THE APPLICATION

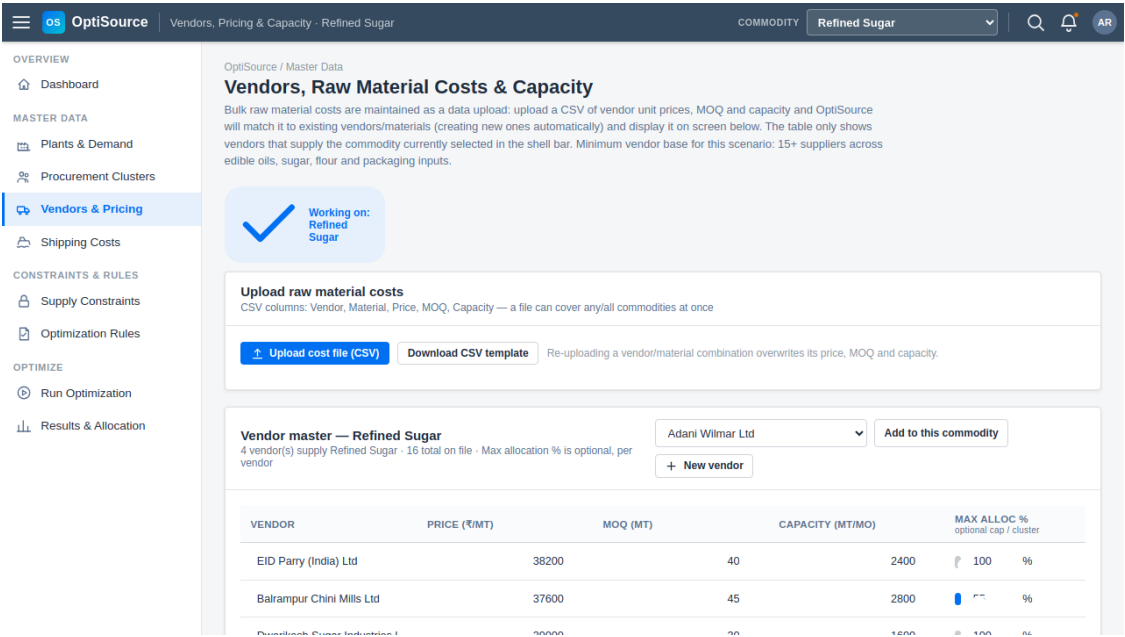
From setup to a lowest-cost recommendation

An enterprise ready solution: pick a commodity, configure vendors and constraints, then run the optimizer for a complete Vendor · Plant · Quantity award.



Dashboard

Commodity in focus, live KPIs, and configuration checklist



Vendors, Raw Material Costs & Capacity

CSV upload populates price, MOQ and capacity per commodity

os OptiSource

Supply Constraints · Refined Sugar

COMMODITY Refined Sugar

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OVERVIEW

Dashboard

MASTER DATA

Plants & Demand

Procurement Clusters

Vendors & Pricing

Shipping Costs

CONSTRAINTS & RULES

Supply Constraints

Optimization Rules

OPTIMIZE

Run Optimization

Results & Allocation

OptiSource / Constraints & Rules

Supply Constraints

Optional, lane-specific caps: the maximum quantity a given vendor may supply to a given plant, for the selected commodity (e.g. regional allocation limits, port/rail restrictions, contractual caps). Lanes without an explicit constraint are limited only by vendor capacity and MOQ rules.

Working on: Refined Sugar

Vendor -- Plant supply limits

0 constraint(s) defined for Refined Sugar

+ Add constraint

VENDOR	PLANT	MAX SUPPLY QTY / MO	NOTE
No lane constraints for Refined Sugar — vendors are limited only by capacity and MOQ.			

OptiSource prototype — for demonstration purposes. Allocation engine uses a heuristic greedy least-landed-cost algorithm, not a certified solver.

Supply Constraints

Lane-specific caps on vendor→plant supply, per commodity

os OptiSource

Results & Allocation · Refined Sugar

COMMODITY Refined Sugar

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OVERVIEW

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Vendors & Pricing

Shipping Costs

CONSTRAINTS & RULES

Supply Constraints

Optimization Rules

OPTIMIZE

Run Optimization

Results & Allocation

OptiSource / Optimize

Results & Allocation

Vendor award recommendation by cluster and plant, at minimum total landed cost, for the selected commodity.

Working on: Refined Sugar

Procurement Recommendation

System-generated lowest-cost Vendor · Plant · Quantity allocation for Refined Sugar

All Clusters

All Vendors

Export CSV

VENDOR	PLANT	CLUSTER	QUANTITY (MT)	UNIT PRICE	SHIPPING / UNIT	LANDED UNIT COST	LINE TOTAL
Balrampur Chini Mills Ltd	Ahmedabad Manufacturing Plant	West Cluster	208	₹37,600	₹1,068	₹38,668	₹80,23,610
Balrampur Chini Mills Ltd	Chennai Manufacturing Plant	South Cluster	95	₹37,600	₹694	₹38,294	₹36,37,930
Balrampur Chini Mills Ltd	Hyderabad Manufacturing Plant	South Cluster	290	₹37,600	₹490	₹38,090	₹1,10,46,100
Balrampur Chini Mills Ltd	Nagpur Manufacturing Plant	East Cluster	240	₹37,600	₹660	₹38,260	₹91,82,400
EID Parry (India) Ltd	Chennai Manufacturing Plant	South Cluster	315	₹38,200	₹602	₹38,802	₹1,22,22,630
Shree Renuka Sugars Ltd	Ahmedabad Manufacturing Plant	West Cluster	103	₹37,900	₹716	₹38,616	₹39,58,140
Shree Renuka Sugars Ltd	Kolkata Manufacturing Plant	East Cluster	430	₹37,900	₹512	₹38,412	₹1,65,17,160
Shree Renuka Sugars Ltd	Pune Manufacturing Plant	West Cluster	520	₹37,900	₹920	₹38,820	₹2,01,86,400

Results & Allocation

Procurement Recommendation table with landed cost and exports

How it works

1. Select Commodity — Choose from the shell bar, e.g. Refined Sugar

2. Upload Data — CSV upload for vendor costs & shipping rates

3. Set Rules — Capacity, MOQ, constraints, diversification

4. Run & Export — Get the lowest-cost allocation, ready to action