

Software Requirements Specification (SRS)

Project Title: ZaraiLink

In Collaboration with Pakistan Agriculture Research

Kaavish Project
Fall 2025

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Chapter 1

Introduction

1.1 Purpose

The purpose of this document is to outline the Software Requirements Specification (SRS) for the **ZaraiLink Project**. It provides an overview of the functional and non-functional requirements, use cases, datasets, and system architecture for developing a comprehensive agricultural intelligence platform built on PAR data. ZaraiLink enables users to explore agricultural trade and market dynamics by allowing them to: discover new trade opportunities, benchmark product prices and performance, monitor market shifts through alerts, evaluate competitors and partners, and plan smarter trade decisions across crops and regions.

1.2 Scope

The scope of this project is to develop Zarailink, an AI-driven agricultural trade intelligence platform designed to strengthen data-driven decision-making within Pakistan's agri-business ecosystem. The platform aims to bridge existing information gaps by integrating verified customs and trade data provided by the Pakistan Agriculture Research (PAR), enabling users to access actionable insights on exports, imports, and domestic market trends. Through its modular design, Zarailink will allow users to analyze product-level intelligence, monitor market dynamics, and benchmark company performance across the agricultural supply chain. The platform will incorporate Graph Neural Networks (GNNs) to uncover hidden trade relationships, detect anomalies, and generate intelligent buyer-supplier recommendations. In addition to market analytics, Zarailink will feature a verified Trade Directory that allows users to connect with key decision-makers of registered companies, facilitating credible and transparent business networking. An integrated AI chatbot assistant will provide conversational access to market insights, while the overall system will prioritize an intuitive, user-friendly interface for practical, business-oriented intelligence. Ultimately, Zarailink seeks to empower Pakistani agricultural stakeholders to make faster, smarter, and more profitable trade decisions

Chapter 2

Project Plan

2.1 Project Objectives

- Develop a unified agri-trade intelligence web platform that centralizes commodity data, trade networks, and real-time market insights for Pakistan's agricultural sector.
- Implement four core analytical modules: **TradeLens**, **Trade Directory**, **Trade Ledger**, and **Trade Pulse**, to provide commodity-level analytics, verified B2B connections, company-level trade intelligence, and real-time alerts respectively.
- Integrate an **AI-powered chatbot assistant** that allows users to query trade data in natural language and receive contextual responses, visual summaries, and partner recommendations using Graph Neural Network (GNN) models.
- Deliver interactive Power BI-based dashboards and visualizations supporting multi-currency analytics (USD/PKR) and dynamic filtering across modules.
- Ensure a scalable backend architecture with RESTful APIs, responsive frontend design, and modular data integration for future expansion.
- Enable businesses to make data-driven decisions through actionable market intelligence, analytics, and performance insights.
- Collaborate with **PAR (Pakistan Agricultural Research)** to integrate ZaraLink into their existing analytics ecosystem for wider adoption and long-term impact.

2.2 Tasks

- **Data Collection and Integration**
 - Gather commodity-wise data for multiple crops using PAR-provided Excel templates and import-export customs records.
 - Map the complete supply chain for each crop (excluding farmers) and identify all involved stakeholders such as processors, traders, exporters, and logistics providers.
 - Verify and record company contact information and trade roles in the official PAR directory format.
 - Compile and integrate all datasets into a unified data repository for further processing.
- **Data Cleaning and Standardization**

- Identify and handle duplicate, inconsistent, or incomplete entries across company and transaction datasets.
- Standardize all data attributes including company names, product categories, quantity units, and currency values.
- Validate directory and transaction data against official trade sources to ensure reliability.
- Prepare structured, analysis-ready datasets for system modules and database upload.

- **TradeLens Module Development**

- Design and develop the core analytics module for commodity-level insights using customs import-export data.
- Implement dashboards showing KPIs such as trade volume, average price, top buyers/sellers, and country-wise shares.
- Integrate dynamic filters for year, month, country, and commodity selection.
- Store transaction and flow relationships within a graph-based knowledge network to support future recommendation and pattern discovery.
- Ensure scalability to accommodate continuous weekly data updates.

- **Trade Ledger Module Development**

- Build company-level analytical dashboards summarizing trade activity, key partners, and performance trends.
- Implement comparison features that allow users to analyze multiple companies side by side.
- Visualize partner networks and trade flows to highlight diversification and market dependencies.

- **Trade Directory Module Development**

- Develop a verified directory for suppliers, buyers, and intermediaries categorized by product and region.
- Implement advanced search and filtering for quick discovery of relevant companies.
- Add company profile pages including overview details, contact information, and trade roles.
- Support a token-based access system for unlocking key contacts.

- **Trade Pulse (News and Alerts)**

- Develop a real-time intelligence feed by scraping verified agricultural and trade news sources.
- Categorize alerts by product, country, and type (price, policy, volume, or risk).
- Display insights in a unified feed featuring trending topics, recent alerts, and followed commodities.
- Generate detailed analysis pages with summaries, explanations, and visual data snapshots.

- **Graph Neural Network (GNN) Integration**

- Construct a graph-based representation of Pakistan's agricultural trade network linking companies, products, and trade flows.
- Train GNN models to identify patterns and suggest relevant partners or emerging market opportunities.

- Integrate GNN outputs into the TradeLens module and AI Chatbot for contextual recommendations.

- **AI Chatbot Assistant**

- Develop a conversational AI interface enabling users to query the system in natural language.
- Implement query handling for trade analytics, company lookup, and partner recommendations.
- Fetch and summarize results dynamically from the TradeLens, Ledger, and Directory databases.
- Present responses with short text summaries, visual previews, and direct dashboard links.

- **Frontend Development**

- Design and implement the web interface using a modern framework such as React.js.
- Ensure responsive and user-friendly dashboards, feeds, and search layouts.
- Integrate charting and visualization libraries for clear data representation.
- Maintain design consistency across modules and optimize for performance.

- **Backend and APIs**

- Build a backend using Python and FastAPI to manage analytics, user interactions, and data communication.
- Use PostgreSQL for structured relational data and Neo4j for graph-based GNN storage.
- Develop RESTful APIs for frontend, chatbot, and analytics module integration.
- Implement secure authentication and access control mechanisms.

- **Deployment and Cloud Setup**

- Containerize the complete system using Docker for smooth deployment.
- Host on AWS cloud for scalability, availability, and data security.
- Automate regular updates, backups, and performance monitoring pipelines.

- **Testing and Documentation**

- Conduct unit and integration testing for all system components and APIs.
- Validate data accuracy and model outputs across the TradeLens and Ledger modules.
- Perform usability testing for the Trade Directory and Chatbot interfaces.
- Prepare technical documentation, user manuals, and data source references.

2.3 Project Timeline

The following Gantt chart outlines project milestones.

2.4 Resources

- **Software Libraries:** We will be using Python-based libraries such as Pandas and NumPy for data cleaning and preprocessing, and Plotly for dashboard visualiza-



Figure 2.1: Project Gantt Chart

tions. FastAPI will be used for backend development, while React will handle the frontend interface. Neo4j will be used for graph-based data storage and GNN experimentation, and PostgreSQL for relational data management. BeautifulSoup and Requests will support data scraping for the Trade Pulse module. For the AI Chatbot, we will use libraries such as Hugging Face Transformers, PyTorch, and NLTK for natural language processing and query understanding.

- **Hardware:** Development will primarily take place on local machines with standard CPUs and 8GB+ RAM. For computationally intensive tasks such as AI model training and graph processing, we will utilize GPU-enabled platforms like Google Colab or AWS EC2 instances. Deployment and testing will use Docker containers hosted on AWS or Render servers to ensure reliability and scalability.
- **Datasets:** The system will utilize PAR-provided Excel templates, verified company directories, and import-export customs data for trade analysis. Additional trade-related information will be gathered from open data sources, verified company websites, and scraped agricultural news articles. The AI Chatbot will use these datasets along with pre-trained language models for answering user queries.

2.5 Task Division

- **Syed Fahad Nadeem** – GNN integration, AI Chatbot, Frontend dashboards.
- **Salman Adnan** – Data collection, cleaning, Trade Directory.
- **Umar Kashif** – Backend, API integration, database management.
- **Ibrahim Rana** – TradePulse module, documentation, UI/UX support.

2.6 Functional Requirements

2.6.1 User Authentication & Management

- Users can sign up, log in, and manage their profile securely.
- The system validates credentials and encrypts passwords.
- Users can update organization details and reset credentials.

2.6.2 User Dashboard & Personalization

- A personalized dashboard provides access to TradeLens, TradePulse, TradeLedger, and the Trade Directory.
- Displays saved searches, bookmarked companies, and recent analytics.
- Interface adjusts content dynamically based on user behavior (importer/exporter patterns).

2.6.3 Trade Directory

- Acts as a verified agricultural business directory sourced from PAR.
- Users can:
 - Search by product, HS code, or region.
 - View verified company profiles with trade data and contact information.
 - Bookmark preferred companies or markets.
- Integrates with TradeLens, TradePulse, and TradeLedger for consistent data access.

2.6.4 TradeLens – Market Intelligence

- Displays export and import market insights for different commodities.
- Provides interactive visualizations showing export volumes, top destinations, and price trends.
- Generates customized analytical reports based on PAR's dashboards.
- Allows data export in PDF and Excel formats.

2.6.5 TradePulse – Alerts & Market Events

- Continuously monitors trade and pricing data for significant changes.
- Uses Graph Neural Networks (GNNs) to detect anomalies in trade flows or commodity prices.
- Users receive notifications for:

- Sudden price spikes or drops.
- Policy changes or export restrictions.
- Market disruptions affecting supply or demand.
- Displays categorized alerts (high, medium, low) on the dashboard.

2.6.6 TradeLedger – Company Analytics

- Shows verified company transaction data, including partner companies and export/import relationships.
- Visualizes trade volumes, frequency, and trading partners.
- Integrates with TradePulse to show how company transactions are impacted by market changes.

2.6.7 AI Chatbot Assistant

- Users can query the system using natural language.
- Chatbot retrieves insights from trade databases and GNN-based models.
- Supports queries such as:
 - “Show sugar export trends in 2024.”
 - “Which companies are importing wheat in Karachi?”
- Responds with text summaries and visual previews.

2.6.8 Notifications & Recommendations

- The system delivers notifications for alerts, recommendations, and new data updates.
- GNN-based recommendation engine suggests:
 - Potential trading partners.
 - Profitable export destinations.
 - Product-specific market opportunities.

2.6.9 Use Case Diagram

The following diagram represents exporter interactions with the system.

2.7 Non-Functional Requirements

2.7.1 Performance

- Dashboard and data queries load within 2–3 seconds.
- GNN-based recommendations are generated within 5 seconds.

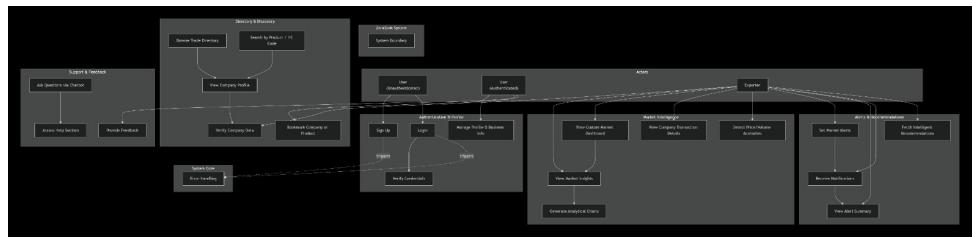


Figure 2.2: Use Case Diagram – Exporter Perspective

2.7.2 Scalability

- Supports over 15,000 concurrent users.
 - System scales horizontally with expanding PAR datasets.

2.7.3 Reliability & Availability

- Ensures 99.9% uptime through cloud infrastructure.
 - Includes automatic daily backups and failover recovery.

2.7.4 Security & Data Governance

- Uses HTTPS/TLS encryption for all data transfers.
 - Role-based access to verified company data.
 - Follows GDPR and Pakistan's data protection laws.
 - Logs all system and trade interactions for auditing.

2.7.5 Usability & Accessibility

- Simplified interface for exporters and importers.
 - Supports Urdu and English.
 - Accessible via web and mobile devices.

2.7.6 Data Integrity & Backup

- All data validated before being added to the system.
 - Daily incremental and weekly full database backups.
 - Backup restoration verified through automated scripts.

2.7.7 Deployment & Integration

- Cloud-native deployment (AWS/Azure).
- Continuous integration for feature updates.
- Modular architecture for easy future expansion.

Chapter 3

System Diagram

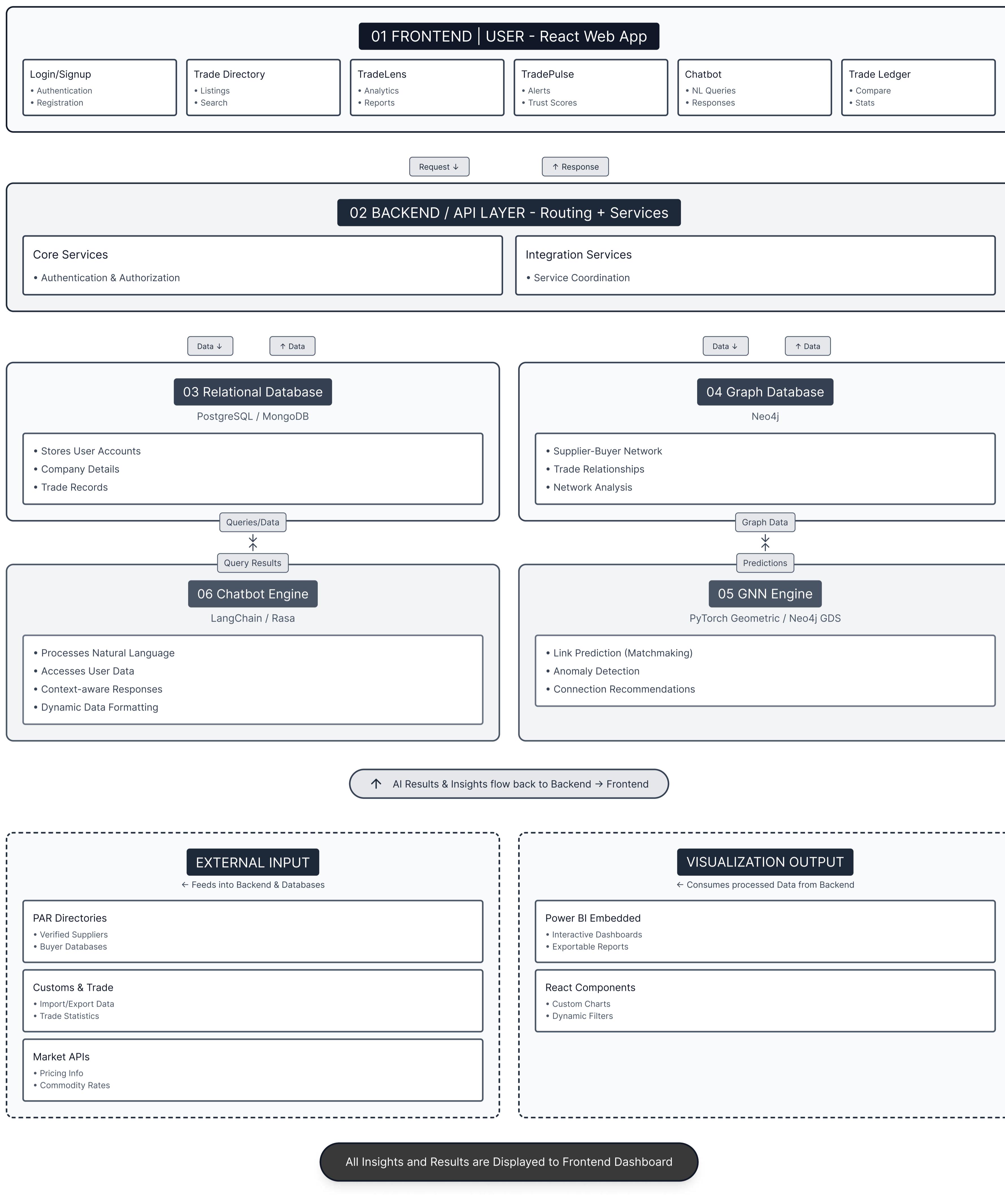
3.1 Overview

This section provides a high-level architecture showing interactions between users, databases, and machine learning models.

Agri-Trade Intelligence Platform

End-to-End Data Flow (Block Diagram)

(Zarailink)



Complete Data Flow Journey

- 1 START**
User opens the Frontend (Web App), logs in, and performs actions like searching Trade Directory, viewing analytics, or asking the Chatbot questions.
- 2 REQUEST**
Frontend sends CRUD API requests to Backend which processes and routes them to appropriate services.
- 3 STORAGE**
Backend fetches data from Relational Database (user info, company details, trade records) OR Graph Database (network relationships, supplier-buyer connections).
- 4 ANALYSIS**
Graph data feeds into GNN Engine which creates predictions, trust scores, and recommendations. User data feeds into Chatbot which processes natural language queries.
- 5 EXTERNAL DATA**
External Data: PAR directories, Customs, Market APIs continuously feed into the system to keep data fresh and accurate.
- 6 RESULTS**
Processed data flows up through Backend: GNN predictions and Chatbot responses are formatted and sent back as API responses.
- 7 END**
Data is visualized through Power BI dashboards or React components and displayed to the user in the Frontend (TradeLens analytics, TradePulse alerts, Chatbot answers).

This diagram shows how trade data moves through Zarailink to generate insights and alerts for users.

The system takes agricultural trade data, processes it intelligently using AI, and shows useful insights and alerts to farmers and traders through an easy-to-use web interface.

3.2 Wireframes Overview

This section shows the user interface wireframes for ZaraiLink modules in their intended user flow.

ZaraLink Wireframes

Authentication



Zarailink Home Agri Insights Trade Network ▾ Agri Intelligence About Sign In / Register

Sign Up - Zarailink

Name
[text input]

Email / Username
[text input]

Password
[password input]

Confirm Password
[password input]

About Contact Terms PAR Partnership



Ask ZaraiBot



Verify Your Email Address

We have sent a verification email to your registered email address.
Please check your inbox and click on the verification link to activate your account.

fahad.nadeem@example.com

1. Check your email inbox
2. Open the email from Zarailink
3. Click on the verification link

Resend Verification Email

Didn't receive the email? Check your spam folder or click resend above.

Zarailink

Home

Agri Insights

Trade Network ▾

Agri Intelligence

About

Sign In / Register

Sign In to Zarailink

Email / Username

Password

Forgot Password?

Login

About

Contact

Terms

PAR Partnership



Ask ZaraiBot

ZaraiLink Dashboard & TradeLens

Search Products

Q Search by HSM code or product name...

HSM Code

Product Name

Category

Recommended Products

View all →

Image

Product 1

HSM-001

View Details

Image

Product 2

HSM-002

View Details

Image

Product 3

HSM-003

View Details

Image

Product 4

HSM-004

View Details

Image

Product 5

HSM-005

View Details

Image

Product 6

HSM-006

View Details

Ask ZaraiBot

Soybean Import

HS Code: 1201.90 | Category: Oilseeds | Unit: Metric Tons (MT)

[Overview](#) [Summary](#) [Comparison](#) [Details](#) [Global View](#)

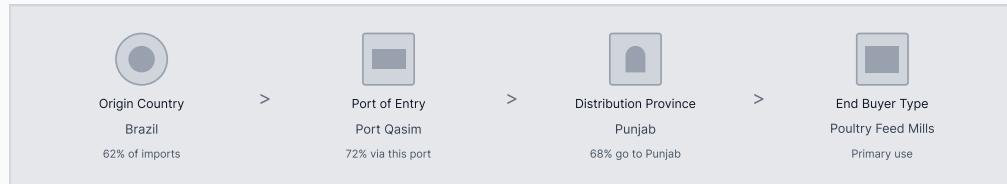
What is this product?

Soybean import refers to raw soybeans imported for crushing into oil and meal. Mainly used for animal feed and edible oil production in Pakistan. Majorly imported via Port Qasim and Karachi. Key demand centers: Punjab and Sindh.

Key Statistics



Supply Chain Flow (Pakistan)



Top Provinces by Volume

Punjab	68%
Sindh	25%
Khyber Pakhtunkhwa	7%

Top Ports by Volume

Port Qasim	72%
Karachi Port	25%
Gwadar Port	3%

Trend Snapshot

↗ Volume up 18% YoY | ↘ Avg price down 5% since Jan 2025 | ↗ 12 new buyers added in Q3 2025

Explore Related Products

[Soybean Meal](#) [Soybean Oil](#) [Palm Oil](#)

Data sourced from PAR TradeLens | Coverage: Pakistan-only trade data | Jan 2022 – Sep 2025 | Last updated: Nov 12, 2025

Soybean Import (Jan 22 – Sep 25)

USD
PKR
[Overview](#)
Summary
[Comparison](#)
[Details](#)
[Global View](#)
 Reset

Year

Month

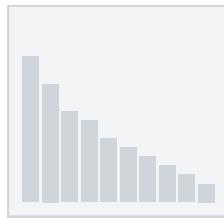
Buyers

Sellers

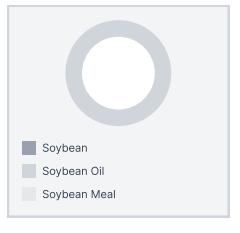
Countries

Products

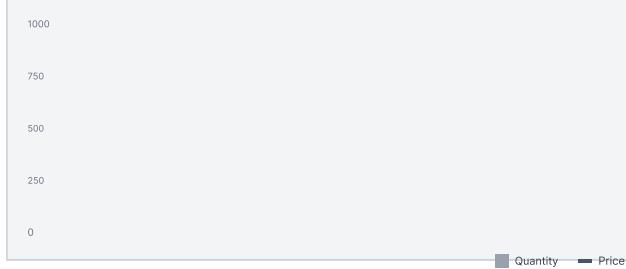
Top 10 Buyers by Quantity and Price (MT)



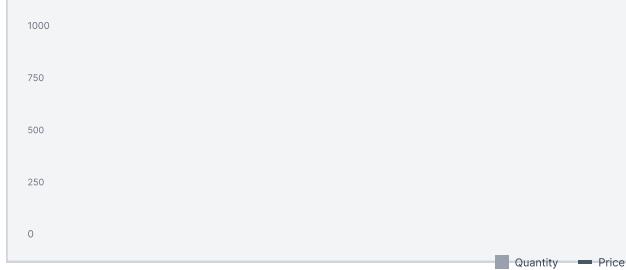
Products by Quantity (MT)

1.2M
Total Qty (MT)\$485
Avg Price (USD/MT)342
Total Buyers128
Total Sellers15
Total Countries

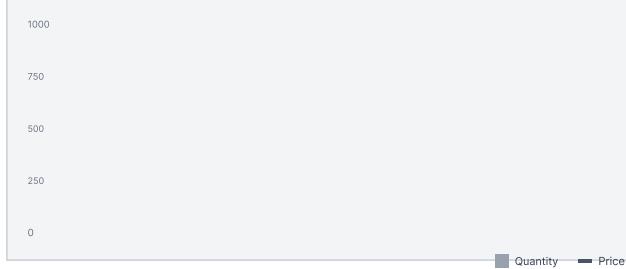
Top 10 Buyers by Quantity and Price



Top 10 Sellers by Quantity and Price



Top 10 Shipping Agents by Quantity and Price



Soybean Import (Jan 22 – Sep 25)

Currency:

USD

PKR

Overview Summary Comparison Details Global View

[Reset](#)

Year
Select Year ▾

Month
Select Month ▾

Buyers
Select Buyers ▾

Sellers
Select Sellers ▾

Countries
Select Countries ▾

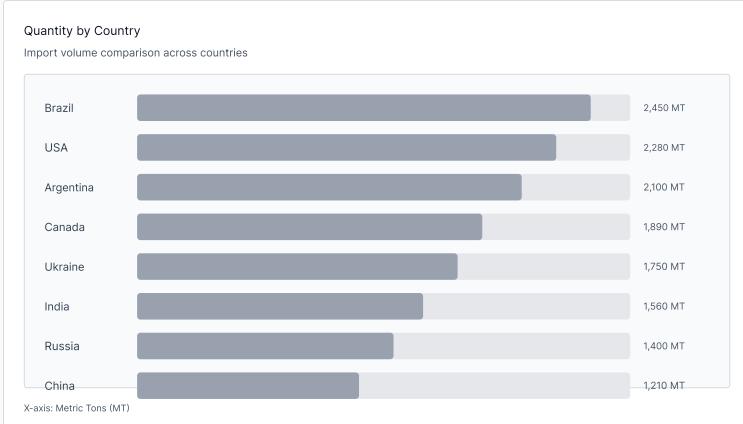
Products
Select Products ▾

Avg Price by Date (Monthly)

Avg Price by Country

Quantity by Country

Quantity by Country



Currency:

USD

PKR

Soybean Import (Jan 22 – Sep 25)

Overview Summary Comparison Details Global View

[Reset](#)

Year
Select Year ▾

Month
Select Month ▾

Buyers
Select Buyers ▾

Sellers
Select Sellers ▾

Countries
Select Countries ▾

Products
Select Products ▾

Products by Quantity and Price

Products	Total Qty (MT)	Avg Price (USD/MT)
Soybean	328,391	580
Soybean Oil	142,580	1,245
Soybean Meal	89,450	425
Total	560,421	750

Countries by Quantity and Price

Countries	Total Qty (MT)	Avg Price (USD/MT)
Ukraine	266,243	597
Argentina	98,156	565
Nigeria	72,890	542
Benin	45,230	538
Ethiopia	31,450	528
Paraguay	26,780	520
Canada	19,672	612
Total	560,421	571

Transaction Details
Granular import transaction data [Export CSV](#)

Buyer	Seller	Country	Quantity (MT)	Avg Price (USD/MT)	Date	Port of Entry
M.A Oils Pvt Ltd	Acis Agro Group Llc	Nigeria	11,400	550	Oct 2024	Port Qasim
Pak Foods International	Ukraine Grain Export	Ukraine	25,600	597	Sep 2024	Karachi Port
National Traders Co	Argentina Soy Ltd	Argentina	18,350	565	Aug 2024	Port Qasim
Green Valley Imports	Benin Exports Inc	Benin	9,800	538	Jul 2024	Karachi Port
M.A Oils Pvt Ltd	Ethiopia Trade Corp	Ethiopia	7,200	528	Jun 2024	Port Qasim
Sindh Food Industries	Paraguay Agro Exports	Paraguay	12,450	520	May 2024	Karachi Port
Metro Foods Ltd	Canada Grain House	Canada	8,900	612	Apr 2024	Port Qasim
Punjab Distributors	Ukraine Grain Export	Ukraine	22,100	602	Mar 2024	Karachi Port
National Traders Co	Acis Agro Group Llc	Nigeria	14,650	545	Feb 2024	Port Qasim
Pak Foods International	Argentina Soy Ltd	Argentina	19,750	570	Jan 2024	Karachi Port

Showing 10 transactions [Previous](#) [Next](#)

Soybean Import (Jan 22 – Sep 25)

Currency:

USD

PKR

Overview Summary Comparison Details Global View

[Reset](#)

Year

Month

Buyers

Sellers

Countries

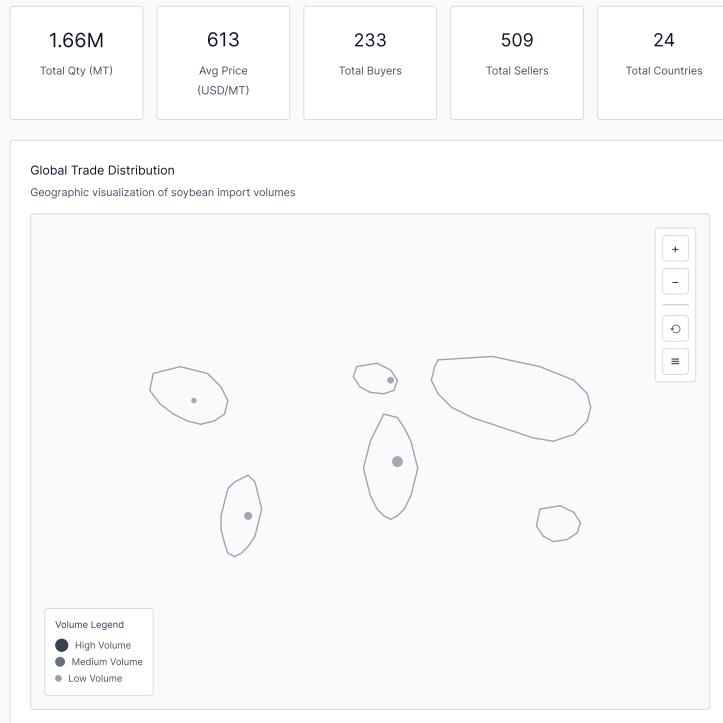
Products

Regions by Quantity and Price

Regions	Total Qty (MT)	Qty %	Avg Price
West Africa	896,921	53.92%	549
South America	298,450	17.95%	532
Eastern Europe	266,243	16.01%	597
East Africa	78,340	4.71%	518
Southern Africa	42,180	2.54%	505
North America	35,890	2.16%	625
Middle East	18,450	1.11%	615
East Asia	12,340	0.74%	590
North Africa	8,920	0.54%	545
Southeast Asia	5,680	0.34%	578
Total	1,663,414	100%	562

Countries by Quantity and Price

Countries	Total Qty (MT)	Qty %	Avg Price
Nigeria	377,540	22.70%	542
Benin	285,430	17.16%	548
Argentina	268,120	16.12%	525
Ukraine	266,243	16.01%	597



Trade Network - Find Suppliers

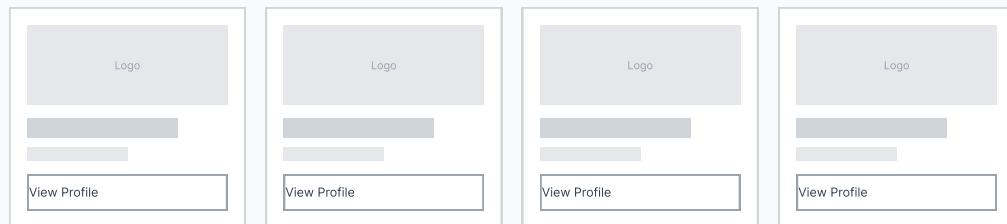
Find Suppliers

Discover verified agricultural suppliers across Pakistan

Filters:

Recommended Suppliers

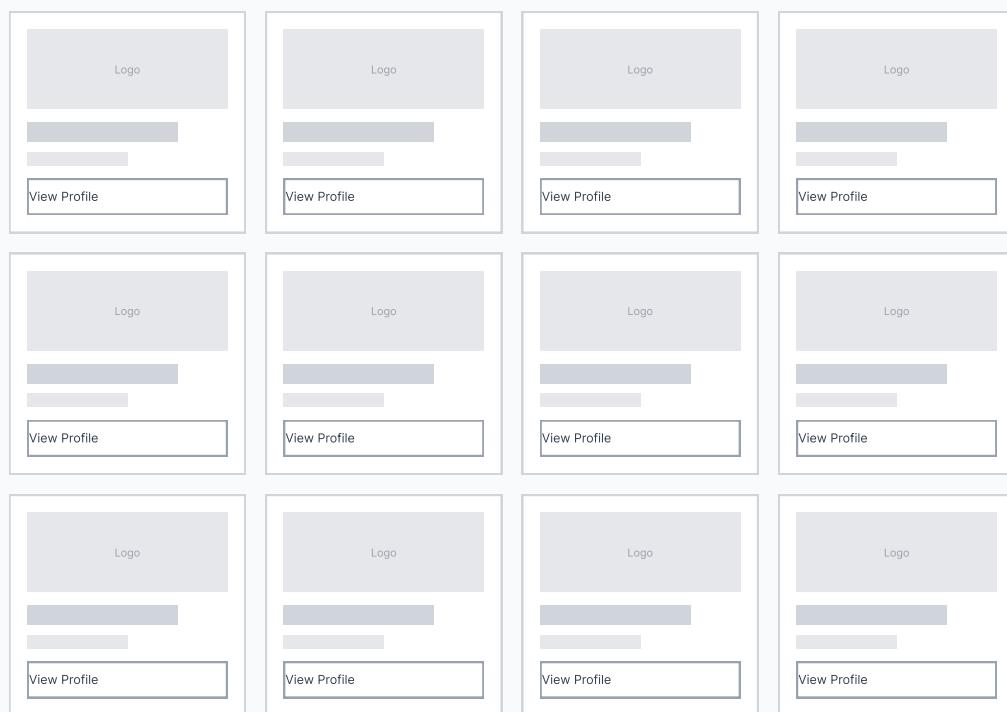
Top suppliers matching your business profile



All Suppliers

Browse all verified suppliers in our network

Showing 1,234 suppliers



[Previous](#) [1](#) [2](#) [3](#) [...](#) [10](#) [Next](#)



Tandlianwala Sugar Mills
Sugar Processing • Pakistan

[Unlock Contact](#)[Overview](#) [Key Contacts](#)

About



Contact Information



Quick Stats

Verified Supplier	
Year Established	1982
Export Markets	12



The screenshot shows the Zarailink platform interface. At the top, there is a navigation bar with links for Home, Trade Network, Trade Intelligence, Subscription, and user profile (Fahad Nadeem). Below the navigation bar, the company logo for "Tandlianwala Sugar Mills" is displayed, along with its industry ("Sugar Processing") and location ("Pakistan"). On the right side of the header, there is a "Unlock Contact" button. The main content area is titled "Key Contacts" and displays four contact profiles in a grid:

- Purchasing Manager**: Includes placeholder email and phone numbers, and a "Unlock Contact (1 Token)" button.
- Sales Head**: Includes placeholder email and phone numbers, and a "Unlock Contact (1 Token)" button.
- Quality Manager**: Includes placeholder email and phone numbers, and a "Unlock Contact (1 Token)" button.
- Logistics Coordinator**: Includes placeholder email and phone numbers, and a "Unlock Contact (1 Token)" button.

A modal window titled "Contact Details Unlocked" for "Tandlianwala Sugar Mills" is displayed. The modal contains the following information about the contact "Ali Khan":

- Profile Picture**: Placeholder for Ali Khan's profile picture.
- Name**: Ali Khan
- Title**: Purchasing Manager
- Email Address**: ali.khan@tandlianwalasugar.com
- Phone Number**: +92 300 1234567
- LinkedIn Profile**: linkedin.com/in/alikhan
- Office Location**: Head Office, Tandlianwala, Pakistan

At the bottom right of the modal, there is a "Close" button.

Trade Network - Find Buyers

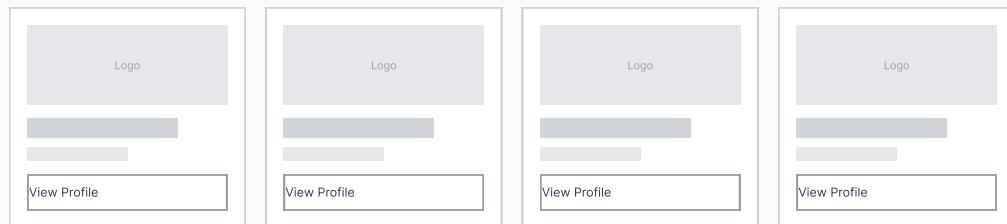
Find Buyers

Discover verified agricultural buyers across Pakistan

Filters:

Recommended Buyers

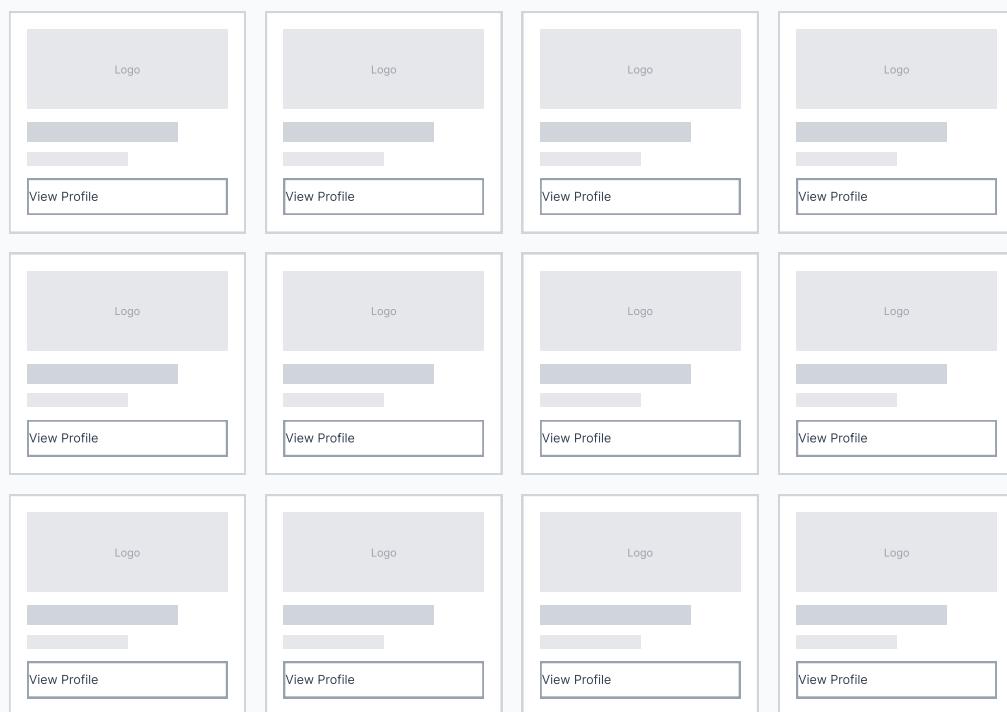
Top buyers matching your business profile



All Buyers

Browse all verified buyers in our network

Showing 892 buyers



Ask ZaraiBot 

[Find Suppliers](#)

Buyer Information

[Company Name] 

[Action Button]

[Company Type] [Company Type] 

[City, Country] [Location] 

[Size Range] [Company Size] 

[Number of Years] [Product Categories] [Product Categories] 

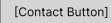
[Phone Number] [Company Description] 

[Brief description about the company and their business operations]

Submitted By

[User Full Name] 

[User Role/Title] 

[Phone] [Date] 

[Contact Button] 

Trade Alert & Pulse

Search products, companies, or regions...

Filters:

Product ▾

Country ▾

Company ▾

Category ▾

Date Range ▾

Apply Filters

Trending Topics

Top stories impacting agricultural trade

Wheat exports to UAE increase by 22% in Q4

Wheat UAE Export

2 hours ago

Rice price volatility detected in Sindh region

Rice Pakistan Price

4 hours ago

New trade agreement impacts cotton imports

Cotton Trade Policy Import

5 hours ago

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Soybean Brazil Price

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Mango Punjab Supply

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Dairy Pakistan Demand

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Citrus Export Market

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Soybean import prices surged 20% in September

 Reuters • Sept 20, 2024

Soybean Brazil Price Policy

Summary



Why it matters

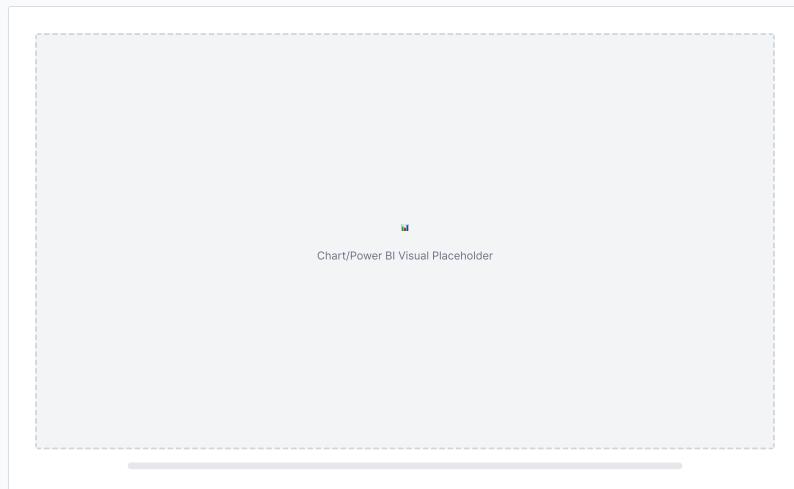


Market Impact Analysis



Data Snapshot

Price trends and market indicators



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TradeLedger

Trade Ledger

Company activity based on Pakistan customs data (Jan 2022 – Sep 2025)

<input type="checkbox"/>	Company Name	Total Volume (MT)	Avg Price (USD/MT)	Active Partners	YoY Growth %
<input type="checkbox"/>	M.A Oils Pvt Ltd	1,200,000	550	24	▲ +18%
<input type="checkbox"/>	Green Valley Traders	850,000	485	18	▲ +12%
<input type="checkbox"/>	Punjab Agro Industries	720,000	620	31	▼ -5%
<input type="checkbox"/>	Sindh Export House	650,000	510	22	▲ +25%
<input type="checkbox"/>	Karachi Trading Co	580,000	475	16	▲ +8%
<input type="checkbox"/>	National Commodities Ltd	520,000	595	28	▼ -3%
<input type="checkbox"/>	Lahore Mills Corporation	490,000	530	20	▲ +15%
<input type="checkbox"/>	Pakistan Grain Exporters	445,000	555	25	▲ +22%
<input type="checkbox"/>	Balochistan Trade Partners	380,000	460	14	▼ -8%
<input type="checkbox"/>	Islamabad Import Export	325,000	580	19	▲ +10%

M.A Oils Pvt Ltd

Based on 142 verified transactions (Jan 2022 – Sep 2025)

Overview Products Partners Trends

USD PKR



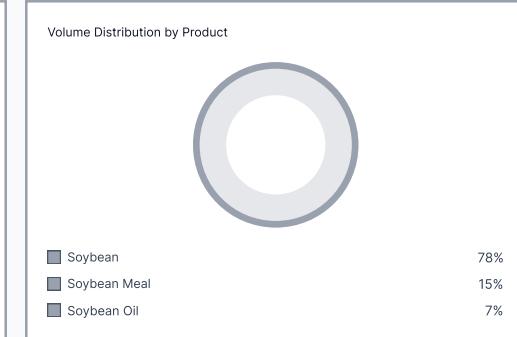
M.A Oils Pvt Ltd

Based on 142 verified transactions (Jan 2022 – Sep 2025)

Overview Products Partners Trends

USD PKR

Product Name	Total Volume (MT)	Avg Price (USD/MT)	YoY Change %
Soybean	936,000	550	▲ +12%
Soybean Meal	180,000	485	▲ +8%
Soybean Oil	84,000	1,120	▼ -3%
Palm Oil	62,000	890	▲ +15%
Sunflower Oil	45,000	1,050	▲ +6%
Rapeseed	38,000	620	▼ -5%
Canola Oil	28,000	980	▲ +22%
Corn	22,000	280	▼ -2%



M.A Oils Pvt Ltd

Based on 142 verified transactions (Jan 2022 – Sep 2025)

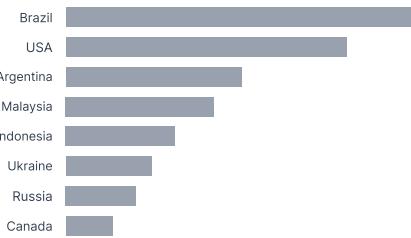
Overview Products **Partners** Trends

USD PKR

Partner Diversity Score

0.72

Based on volume distribution across partners

Top Exporting Countries**Volume Share by Country**

Brazil — 62% of total volume

USA — 25% of total volume

Argentina — 13% of total volume

Note: No buyer/seller names — only country aggregates

Top Ports of Entry

Port Qasim — 78% of shipments

Karachi Port — 15% of shipments

Gwadar Port — 7% of shipments

About Contact Terms PAR Partnership



Revenue estimated from customs declarations (Quantity × Avg Price). Not audited.
Partner data anonymized per customs regulations.

M.A Oils Pvt Ltd

Based on 142 verified transactions (Jan 2022 – Sep 2025)

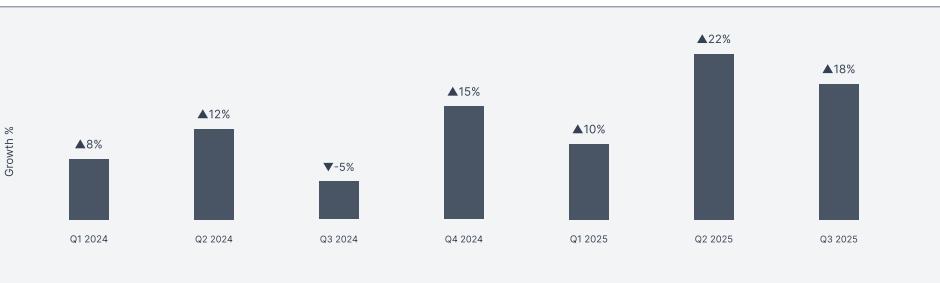
Overview Products Partners Trends

USD PKR

Monthly Volume vs Avg Price (Jan 2022 – Sep 2025)



YoY Volume Growth by Quarter



Key Trend Summary

Volume peaked in Q3 2025 (▲22% vs prior quarter) | Price volatility ↓ 15% since 2024 | 87% of growth from Brazilian partners

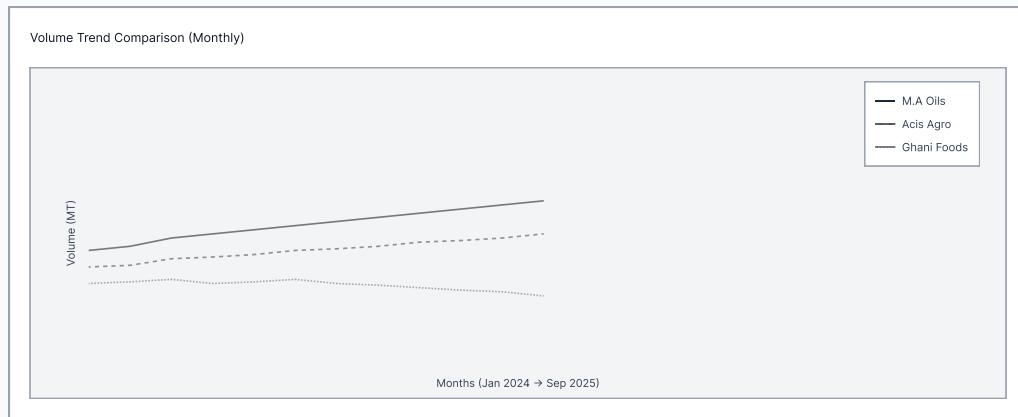
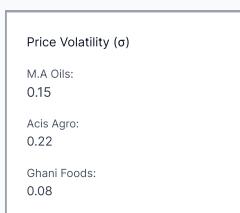
Compare Companies

Based on Pakistan customs data (Jan 2022 – Sep 2025)

USD PKR

Selected Companies (3): M.A Oils X Acis Agro X Ghani Foods X

Add Company



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