

CASE STUDY

Smruthi Chemicals

Builds a Traceable, AI-Ready ERP on AWS with Shri Sai Tech LLC DBA SST

Executive summary

Smruthi Chemicals and Intermediates, an Active Pharmaceutical Ingredient (API) manufacturer in Solapur, Maharashtra serving European and emerging markets, is replacing its legacy EazyERP system and its dependency on Tally for financial reporting. The goal is one integrated ERP where every lot is traceable and every approval follows company rules.

Today, purchasing, receiving, quality control, production and sales work across separate tools. Batch records are fragmented, approvals depend on manual routing, and finding the status of a purchase order or the stock held against a batch takes time. In a regulated API business, that makes traceability and audit-readiness harder than it should be.

To address this, Smruthi Chemicals and Intermediates partnered with Shri Sai Tech (SST) to build an integrated ERP on Amazon Web Services (AWS). Phase 0, a four-week AWS-funded proof of concept (5–30 October 2026), delivered the AWS environment, PR & PO Management, Material Receipt & Inventory, a custom AR Number Service, an Approval Matrix Engine and a Bedrock-powered Copilot.

About Smruthi Chemicals

Smruthi Chemicals and Intermediates is an Active Pharmaceutical Ingredient (API) manufacturer in Solapur, Maharashtra, serving European and emerging markets, replacing its legacy EazyERP and Tally.

Every lot of material is tracked by an AR (Analytical Report) number, linking purchasing, receipt, QC and sales.

Swapnil Eaga

Director

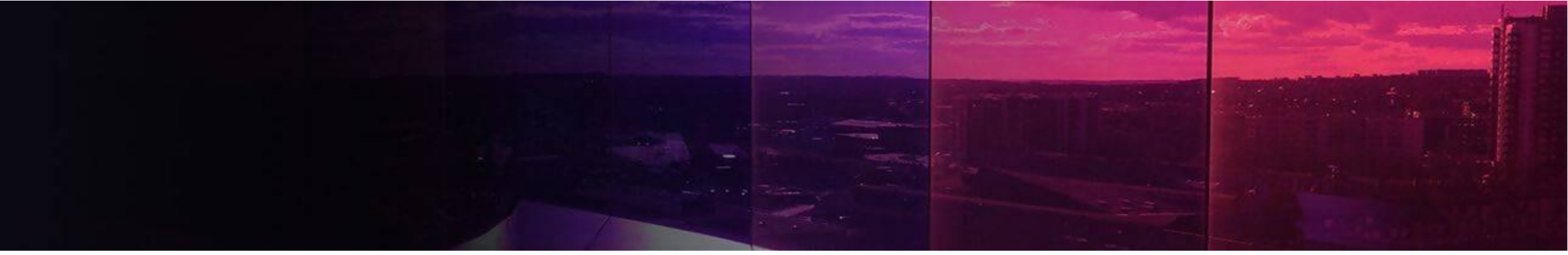
Swapnil Eaga is the Director of Smruthi chemicals and Intermediates, responsible for Finance & Operations. He holds a BSc (Chem) from the US and an MBA in Finance from Spain, with more than 8 years of professional experience in the API industry.

The challenges

- **Challenge 1 – Ageing Legacy ERP**
  The current EazyERP system limited workflow control and traceability, and the company needed a platform it could extend as its requirements grew.
- **Challenge 2 – Dependence on Tally for Financial Reporting**
  Financial reporting ran outside the ERP in Tally, so operational and finance data lived in separate systems.
- **Challenge 3 – Batch Traceability in a Regulated Business**
  Every received lot needed a unique, immutable identity and a controlled path from quarantine through QC to release or rejection.
- **Challenge 4 – Complex, Multi-Level Approvals**
  Purchase requisitions had to be routed to the right approver by department, material type and value, without manual chasing.
- **Challenge 5 – Bringing AI to ERP Data Safely**
  Natural-language access to ERP data, limited to what each user may see, with no ability to approve or change records.

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Together we can make it possible

Simplify Digital Transformation with AWS

Amazon Web Services (AWS) gave Smruthi Chemicals and Intermediates a secure, scalable platform on which to build and prove its new ERP, with a security baseline in place from the first week.

By building on AWS, Smruthi could stand up a private, secured proof-of-concept environment quickly and use Amazon Bedrock to add AI without building or running its own model infrastructure. Phase 0 was an AWS-funded engagement; GAMP-5 validation, data migration and production go-live follow in later phases.

Why Shri Sai Tech?

Smruthi Chemicals and Intermediates selected Shri Sai Tech for its ability to deliver custom ERP builds on AWS, with AI capabilities, for regulated manufacturing:

Key reasons Smruthi selected SST:

- ERP design, configuration and custom development
- AWS cloud architecture, VPC security and IAM
- Amazon Bedrock and conversational AI experience
- Understanding of regulated, batch-traceable pharma workflows
- Agile delivery with weekly stakeholder demos
- Discovery workshops across procurement, warehouse, QC, production and sales
- Ability to deliver a working proof of concept in four weeks

The Solution

SST delivered the following Phase 0 components for Smruthi Chemicals and Intermediates on AWS.

Purchase Requisition & PO Management

Module 1: PR creation, multi-level approval routing and PO issuance, configured and demonstrated in the proof-of-concept environment.

Material Receipt & Inventory Management

Module 2: goods receipt against a PO, with each line mapped to a batch and AR number, and a working quarantine → QC → release or reject workflow.

Approval Matrix Engine

A custom, configurable engine that routes approvals through multiple levels by department, material type and value.

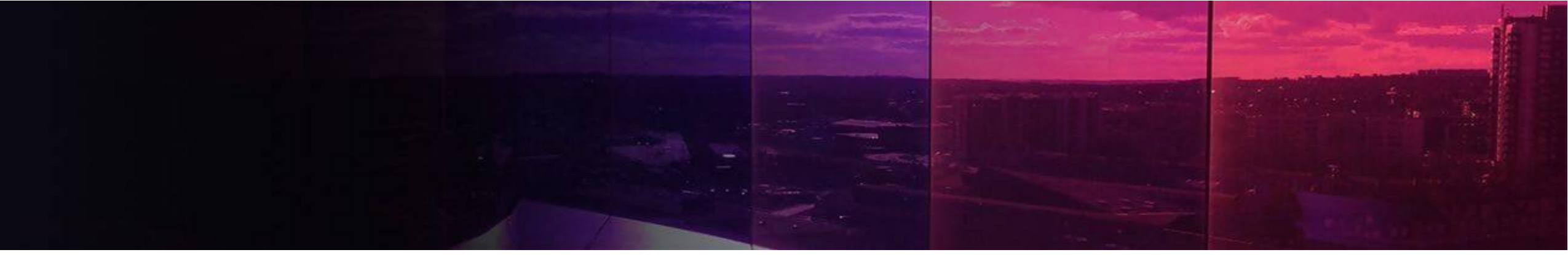
AR Number Service

A custom service that generates a unique, immutable batch / AR identifier at goods receipt, the basis for full traceability.

Conversational Copilot on Amazon Bedrock

A read-only, permission-scoped assistant that answers natural-language questions on live POC data, such as PR/PO status and inventory by AR number. It takes no approval or write actions.

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Secure AWS Foundation

A development / POC environment on AWS with VPC, security baseline and IAM set up in Week 1, plus a discovery and configuration workbook built from the URS workflows.

AWS Services and AI Models Used

AI Models and ERP Components

Foundation Models	Custom ERP Components
Amazon Bedrock – behind the Copilot • Natural-language ERP questions • Grounded in live PR/PO and inventory data • Read-only and permission-scoped by design	Built for regulated batch traceability • AR Number Service for immutable batch IDs • Approval Matrix Engine, multi-level routing • Quarantine → QC → release workflow per batch

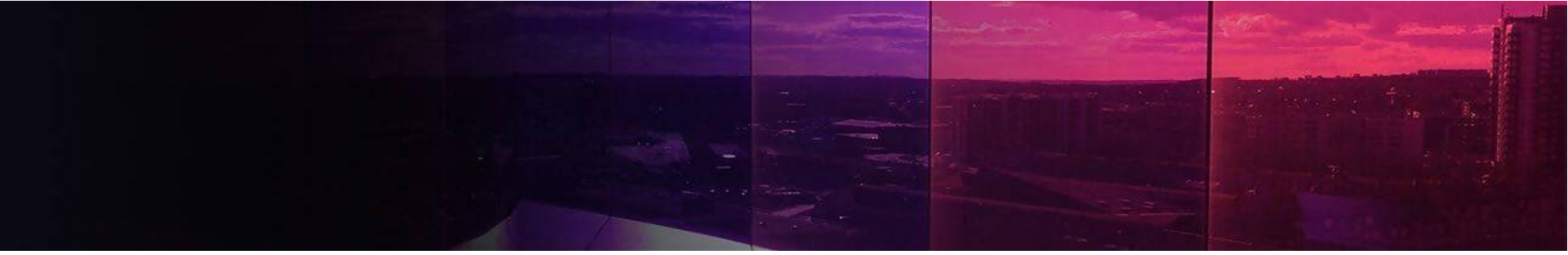
AWS Cloud Services

• Amazon Bedrock — foundation-model access • Amazon VPC — private network and security baseline	• AWS IAM — least-privilege, permission-scoped access • AWS compute and database — ERP POC hosting

Results

- **Delivery**
  - Foundation, two ERP modules and three custom builds delivered in four weeks
  - Weekly demonstrations to the business owner from Week 1
- **Traceability**
  - A unique, immutable AR number for every goods-receipt line
  - Quarantine → QC → release / reject working per batch
- **Control**
  - Approvals routed by department, material type and value
  - PR-to-PO flow demonstrated end to end
- **Safe AI**
  - Copilot answers PR/PO and inventory-by-AR-number questions in plain language
  - Read-only and permission-scoped by design

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Benefits

- One platform for purchasing, receiving and inventory, replacing a legacy ERP
- Every received lot traceable through its AR number
- Approvals that follow company rules, configured rather than hard-coded
- Plain-language answers about PRs, POs and stock
- AI that is read-only and limited to what each user is permitted to see
- A secure AWS foundation ready for GAMP-5 validation and production readiness

Next steps

- Phase 1: GAMP-5 validation and production readiness
- Phase 2: data migration from EazyERP and Tally, cutover and adoption
- Add Material Issue & Consumption and Sales & Invoicing modules
- Add the Procurement, QC / Compliance and Production / Inventory AI agents
- Move from the proof-of-concept environment to production on AWS
- Replace Tally for financial reporting

About Shri Sai Tech LLC DBA SST

SST is an AWS Partner specializing in AI-driven, cloud-native architecture and secure, compliant solutions across a wide range of industries — including healthcare, finance, education, retail, manufacturing, logistics, energy, government and public sector, telecommunications, and media and entertainment. Partnering closely with our clients, SST rapidly designs and deploys production-ready AI platforms on AWS, bringing AI-powered capabilities to market with speed and confidence.

aws PARTNER AI Services Competency
- Generative AI Consulting Services

aws PARTNER
- MSP Partner
- Saas Partner
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- Marketplace Seller
- Network Competency

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