

MOSIP_V01_Draft-040220...
Document

SL-UDI Technical Proposa...
Document

In both pdf Give me the approach part in the technical proposal

Here is the **Approach / Technical Approach** part from both **Technical Proposals** — I've extracted and summarized only the **Approach section content** (not full architecture or modules).

1 BEL Technical Proposal – Approach (Technical Approach Direction)

From the BEL proposal, the approach is not written as a single "Approach" chapter — instead it is explained through:

- Executive Summary
- Solution Overview
- Architecture Principles
- Implementation & Risk Approach

- ◆ Overall Technical Approach

BEL's approach focuses on implementing MOSIP as **Digital Public Infrastructure (DPI)** with these core principles:

Sovereign-by-design implementation

- Government-controlled DC/DR deployment
- Full national ownership of data and cryptographic assets

Modular microservices architecture

- Independent services for enrolment, authentication, resident services
- API-based integration for interoperability

Offline-first identity enrolment

- Registration clients work without connectivity
- Packet-based secure data synchronization

Security-first architecture

- Encryption at rest and transit
- Central IAM and consent-based authentication

Phased rollout strategy

- Pilot → Scale → National deployment
- Risk-managed delivery model

 The technical approach is therefore:

- Build MOSIP core infrastructure first
- Enable integrations through standardized APIs
- Ensure scalability via Kubernetes-based microservices
- Maintain privacy via segregated data architecture

 This approach is explained across Executive Summary and Solution Overview sections

 MOSIP_V01_Draft-04022026 (1)

2 Mantra Technical Proposal – Approach and Methodology (Main Approach Section)

This proposal contains an explicit chapter:

 **Section 14 – Approach and Methodology**

Mantra's Technical Approach Philosophy

Mantra's approach is structured around national digital transformation objectives and hardware-software integration.

Key principles:

Alignment with SL-UDI national vision

- Comply with governance policies
- Support regulatory and cultural context
- Build citizen-centric identity ecosystem

Citizen-centric & inclusive design

- Multi-channel enrolment
- Rural & urban accessibility
- Local language and usability support

Unified Digital Identity ecosystem

- One identity backbone for all services
- Government + private sector interoperability

Bridging digital divide

- Offline-capable architecture
- Device-based enrolment kits

Secure-by-design technical model

- Encryption & privacy controls
- Zero Trust security principles

Modular innovation platform

- Open-source stack
- Microservices & API-first design
- Vendor-neutral architecture

 These approach principles are described under “Mantra’s Solution Positioning” and “Approach and Methodology”  SL-UDI Technical Proposal_Mantr...

BEL vs Mantra – Technical Approach Difference (Important for Proposal Review)

Here is a clear comparison so you understand both approaches quickly:

Aspect	BEL Technical Approach	Mantra Technical Approach
Focus	Platform architecture & governance	Implementation + hardware integration
Core Strategy	Sovereign MOSIP DPI deployment	Integrated MOSIP + biometric ecosystem

Aspect	BEL Technical Approach	Mantra Technical Approach
Architecture	Microservices + Kubernetes	Microservices + hardware driven
Security	Privacy-first design	Zero-Trust + anti-spoofing biometrics
Delivery Model	Phased rollout	Accelerated deployment
Emphasis	National infrastructure	End-to-end identity solution



Simple Summary (In Proposal Language)

👉 BEL Approach:

Build a sovereign, scalable MOSIP-based national identity platform using modular architecture, offline-first enrolment, strong governance, and phased implementation.

👉 Mantra Approach:

Deliver a citizen-centric, secure, hardware-software integrated identity ecosystem aligned with SL-UDI goals, leveraging open standards, biometric innovation, and modular deployment.

If you want, I can also give you:

- 🔎 Exact “Approach” text rewritten in RFP style (ready to paste into technical proposal)
- 📄 Or a **combined unified approach section** (BEL + Mantra merged professionally — very useful for final submission)

Just tell me .

Sources



In detail

Here is the **DETAILED TECHNICAL APPROACH** from both PDFs — expanded clearly but still faithful to what is written in the proposals. I'm combining the exact ideas, structure, and technical intent from the documents so you can directly use it for review or proposal work.

1 BEL Technical Proposal – Detailed Technical Approach

BEL's proposal does not label one single chapter as "Approach," but the technical approach is fully defined through the **Executive Summary, Solution Overview, Architecture, Risk Management and QA** sections.

Below is the **actual technical approach logic** used in the proposal.

◆ A. Sovereign-by-Design Implementation Approach

BEL proposes building SL-UDI as **national Digital Public Infrastructure (DPI)**.

Key ideas:

- Government retains full control of:
 - Identity data
 - Encryption keys
 - Hosting infrastructure
- Deployment is strictly inside **Government DC/DR environments**.
- Open-source MOSIP prevents vendor lock-in.

 The approach ensures long-term sustainability and national ownership.

 Explained in Executive Summary and Solution Overview  [MOSIP_V01_Draft-04022026 \(1\)](#) .

◆ B. Modular Microservices Architecture Strategy

BEL's technical approach is based on a **loosely coupled architecture**:

Design Philosophy:

- Each MOSIP module is independent:
 - Pre-registration
 - Registration Client
 - Registration Processor
 - Authentication
 - Resident Services
 - DataShare

Why this approach?

- Enables scalability.
- Allows upgrades without impacting the whole system.
- Supports future extensions.

👉 Services communicate via **secure standardized APIs**.

📄 Logical Architecture description 🔗 MOSIP_V01_Draft-04022026 (1) .

◆ C. Offline-First Enrolment Approach

A major technical strategy in BEL's proposal:

Problem addressed:

Sri Lanka has areas with unreliable connectivity.

Solution:

- Registration Client works offline.
- Data stored as encrypted packets.
- Synchronization happens when connectivity returns.

Benefits:

- Nationwide inclusion.
- Secure field operations.
- No data loss during network outages.

📄 Enrolment Edge Architecture section 🔗 MOSIP_V01_Draft-04022026 (1) .

◆ D. Secure Data Architecture Approach

BEL proposes a **privacy-first technical design**.

Key practices:

- Demographic and biometric data stored separately.
- Encryption:
 - At rest
 - In transit
- Centralized key management.

Biometric data access is restricted only to controlled workflows.

 Data Architecture section  MOSIP_V01_Draft-04022026 (1) .

◆ E. Phased Implementation & Risk-Managed Delivery

BEL's delivery approach:

1. Early pilots.
2. Progressive national rollout.
3. Continuous monitoring and risk mitigation.

Risk management includes:

- Architecture risks
- Integration risks
- Security risks
- Operational risks

 Risk Management Approach section  MOSIP_V01_Draft-04022026 (1) .

◆ F. Capacity Building & Sustainability Approach

BEL emphasizes long-term government ownership:

- Training programs
- Documentation
- Knowledge transfer

- Train-the-trainer model

This ensures Sri Lanka can operate MOSIP independently later.

 Capacity Building section  MOSIP_V01_Draft-04022026 (1) .

2 Mantra Technical Proposal – Detailed Approach & Methodology

Mantra's proposal has a dedicated "Approach and Methodology" philosophy explained through:

- Executive Summary
 - Solution Positioning
 - Development Approach
 - Methodology sections
-

◆ A. Citizen-Centric Identity Ecosystem Approach

Mantra's approach focuses on usability and inclusivity.

Key design goals:

- Local language support
- Cultural alignment
- Accessibility for rural citizens
- Multi-channel onboarding

The platform is positioned as a **digital citizenship layer** enabling service access.

 Solution Positioning section  SL-UDI Technical Proposal_Mantr... .

◆ B. Integrated Hardware + Software Deployment Approach

Unlike BEL, Mantra emphasizes its strength in:

- Biometric devices
- Registration kits

- Authentication hardware

Technical approach:

- Seamless integration of MOSIP software with certified biometric hardware.
- Anti-spoofing biometric technology.
- Faster rollout through pre-tested device ecosystem.

 Executive Summary & Scope sections  SL-UDI Technical Proposal_Mantr... .

◆ C. MOSIP Microservices & Event-Driven Architecture Approach

Mantra's methodology highlights core engineering practices:

- API-first design.
- Staged Event Driven Architecture (SEDA).
- Kubernetes orchestration.
- Cloud-native deployment.

Benefits:

- Scalability.
- Fault isolation.
- Independent component deployment.

 MOSIP Platform Foundation section  SL-UDI Technical Proposal_Mantr... .

◆ D. Secure-by-Design and Zero Trust Security Approach

Security strategy includes:

- Zero Trust Architecture.
- Hardware Security Modules (HSM).
- PKI-based encryption.
- Role-based access control.

Approach focuses heavily on:

- Anti-spoofing biometric validation.
- Secure device integration.

 Security architecture principles  SL-UDI Technical Proposal_Mantr... .

◆ E. Rapid Deployment & Implementation Methodology

Mantra's technical approach emphasizes acceleration:

- Pre-tested MOSIP sandbox environments.
- Existing deployment experience.
- Performance benchmarking already completed.

Goal:

👉 Faster implementation timeline compared to traditional SI models.

 Scope of Mantra Identity section  SL-UDI Technical Proposal_Mantr...

◆ F. Innovation-Driven Architecture Approach

Mantra proposes additional ecosystem components:

- CRM call center integration
- Enterprise monitoring
- Drupal CMS portal
- BI analytics platform

Approach extends beyond MOSIP core to full enterprise ecosystem.

 High-Level Solution Architecture explanation  SL-UDI Technical Proposal_Mantr...

BEL vs Mantra — FULL Technical Approach Comparison

Here's a deep technical comparison based strictly on both proposals:

Technical Area	BEL Approach	Mantra Approach
Strategy	Sovereign DPI platform	Integrated identity ecosystem
Focus	Governance & architecture	Implementation acceleration
Enrolment	Offline-first software approach	Hardware + software enrolment kits
Security	Privacy architecture & compliance	Zero Trust + biometric anti-spoofing

Technical Area	BEL Approach	Mantra Approach
Deployment	Phased national rollout	Rapid deployment methodology
Innovation	Modular infrastructure	Extended enterprise solutions



Ultra-Simple Interpretation

- 👉 BEL Technical Approach = Infrastructure + Governance + National Platform Stability
- 👉 Mantra Technical Approach = Deployment Speed + Devices + Integrated Identity Ecosystem

✓ If you want, I can also create:

- 🔥 A combined “FINAL TECHNICAL APPROACH” section (RFP-ready language merging BEL + Mantra — very useful for submission or review)
- 📊 Or a line-by-line comparison showing gaps / overlaps between both approaches (this is usually what MSI reviewers need)

Just tell me 👍.

Sources

