
from Bureaucracy to BharOS

Indigenous Network Digital Infrastructure for All

yeh hai mera !ndia

the entrance exam

somebody's gotta do it

- Students needed to take exam from a controlled environment.
- IT dept. did not want the responsibility of moving equipment
- Vendors did not want to do something they were not going to get paid for

- How fast can you do it ?
 - How can you do it sitting in the hills ?
 - Do it.
-

PASS

nobody gets fired for buying
bug-tech

A photograph of a small, single-story house with a vibrant red tiled roof. The house is partially obscured by dense green foliage, including a large palm tree in the foreground. In the background, steep, green mountains rise sharply under a clear sky. Power lines are visible stretching across the mountainous landscape. The overall scene is peaceful and scenic, suggesting a rural or mountainous setting.

yes,
this is
where i
still live.

mad-rasi

Life in the hills

- one way to think clearly when you're surrounded by institutional politics and people whose careers depend on nothing changing.
- away from the noise, it's obvious: The problem is that people don't believe a different way of working is possible. Technology can't fix that. Only luck/providence can.
- Building relationships, earning trust takes years, decades.

BharOS

Principles & Practice

NDA (No Default Apps): Immutable, minimal-footprint Linux -. Zero bloatware. Zero legacy protocols. Zero attack surface that shouldn't exist. Every component is there for a reason and can be audited.

PASS (Personal Authentic Software Services): One cryptographic way to install anything. One way to remove it. Sign it with the institution's key. Push to the edge. No vendor dashboards. No cloud APIs. Just cryptography.

The Silicon Exception: Wi-Fi drivers stay proprietary (industry demands it), but orchestration, telemetry, control logic, and policy inference are 100% open source. You can read it. You can audit it.

Visibility: Raw IPFlow telemetry. Every packet, every connection, every flow. Streamed to research labs at multiple IITs. Anonymized. Real-time. Not filtered through a vendor dashboard. Just data.

Control: SSHv2 with institutional cryptographic keys. Every network element runs hardened BharOS. No vendor can push updates. No backdoor access. Only the institution can change things through keys they own.

The outcome: The institution owns the network. Not the vendor. Not the gatekeepers protecting the vendor. That's sovereignty.

BharOSa

Visibility and Control

4 week deployment

yes, we did it -
went live on
26th January 2026

- Importing hardware
- Logistics & Transport
- Physical Installation

- Demand to supply non-existent product included in the tender
 - 2 months to prove it does not exist
 - short closures, project completion, payments
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Beaura-crazy

vendor revenge play

the way forward

rule of 3

Start with bureaucracy, not bits. Map your decision chain. Build institutional trust over years. When top leadership believes in you, they'll authorize what makes gatekeepers uncomfortable. Vendor lock-in is a feature—offer institutional ownership instead.

Use crisis as catalyst. An exam failure is a gift—it's when the status quo collapses and people are desperate for alternatives. Don't talk about it—let them experience it.

Automation beats dashboards. If fixing a problem requires a human to read a chart, you haven't automated. Feed raw telemetry to your research labs. Let academics build better detection. Turn your network into research infrastructure. Stop renting. Start owning.

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