Technical & Monitoring Audits

INDEPENDENT SITE, LINK AND BUILD VERIFICATION

Independent proof that the network was built as promised

Monitoring and technical audits of funded and operator networks: mauza drive tests, site, microwave link and equipment checks, and civil works verification.

USF LOTS AUDITED
7

MAUZAS TESTED
711

SITES VERIFIED
206

AUDIT TYPES
2

Independent field evidence

Monitoring and technical audits



Sites, links and civil works

Steel, soil and concrete checks



7 USF lots audited

711 mauzas and 206 sites

Mauza drive tests

Coverage and KPI measurement in every village the lot must serve.

Site verification

Physical checks that each site exists, is on air and matches the plan.

Microwave link verification

Checks that transmission links are installed and performing as specified.

OPERATIONAL CONTEXT

A clearer way to work

Monitoring and technical audits of funded and operator networks: mauza drive tests, site, microwave link and equipment checks, and civil works verification.

01

Unverified claims

Funders and operators need independent evidence that sites and coverage exist.

02

Hidden build quality

Steel, foundations and installed equipment are hard to check after handover.

03

Links and equipment

Microwave links and installed equipment must match what was contracted.

THE CHANGE IN DAILY OPERATIONS

Before	With Audits
— Coverage taken on trust	✓ Drive-tested coverage per village
— Civil works unchecked	✓ Verified steel, soil and concrete
— Equipment lists unverified	✓ Equipment matched to contract
— Disputes over milestones	✓ Milestones backed by evidence
— Scattered field notes	✓ One structured audit report

AN OPERATIONAL SCENARIO

Verify a programme milestone

A funding body needs independent evidence that the sites, links, equipment and civil works claimed at a milestone really exist and meet the specification.

711	206	7	One
Mauzas audited	Sites verified	Lots across Pakistan	Report per milestone

CAPABILITIES 1

The capabilities that do the work

Explore the core functions of Technical & Monitoring Audits and the operational tasks they support.

01

Mauza drive tests

Coverage and KPI measurement in every village the lot must serve.

02

Site verification

Physical checks that each site exists, is on air and matches the plan.

03

Microwave link verification

Checks that transmission links are installed and performing as specified.

04

Installed equipment verification

Equipment on site compared against the contracted bill of materials.

05

Steel, soil and concrete checks

Civil and structural verification of towers and foundations.

06

HLD and LLD compliance

Design compliance checks against the agreed baselines.

DESIGNED AROUND THE USERS

Funding bodies Independent milestone evidence.

Operators Quality checks on contractor work.

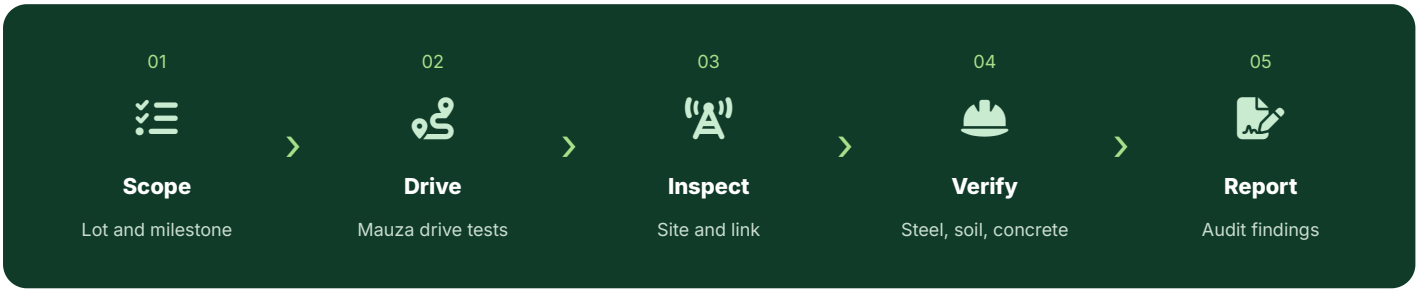
Vendors Pre-acceptance self-checks.

Programme managers Findings per site and mauza.

WORKFLOW

From the first step to the outcome

A connected sequence makes the handoffs and responsibilities easier to follow.



01

Scope

We agree the lot, the milestone and the audit type: monitoring or technical.

02

Plan

Field teams plan drives and site visits across the lot.

03

Measure

Drive tests and site inspections collect the evidence.

04

Verify

Links, equipment and civil works are checked against the contract.

05

Report

You receive audit findings for each site and mauza.

A PRACTICAL WALKTHROUGH

Verify a programme milestone

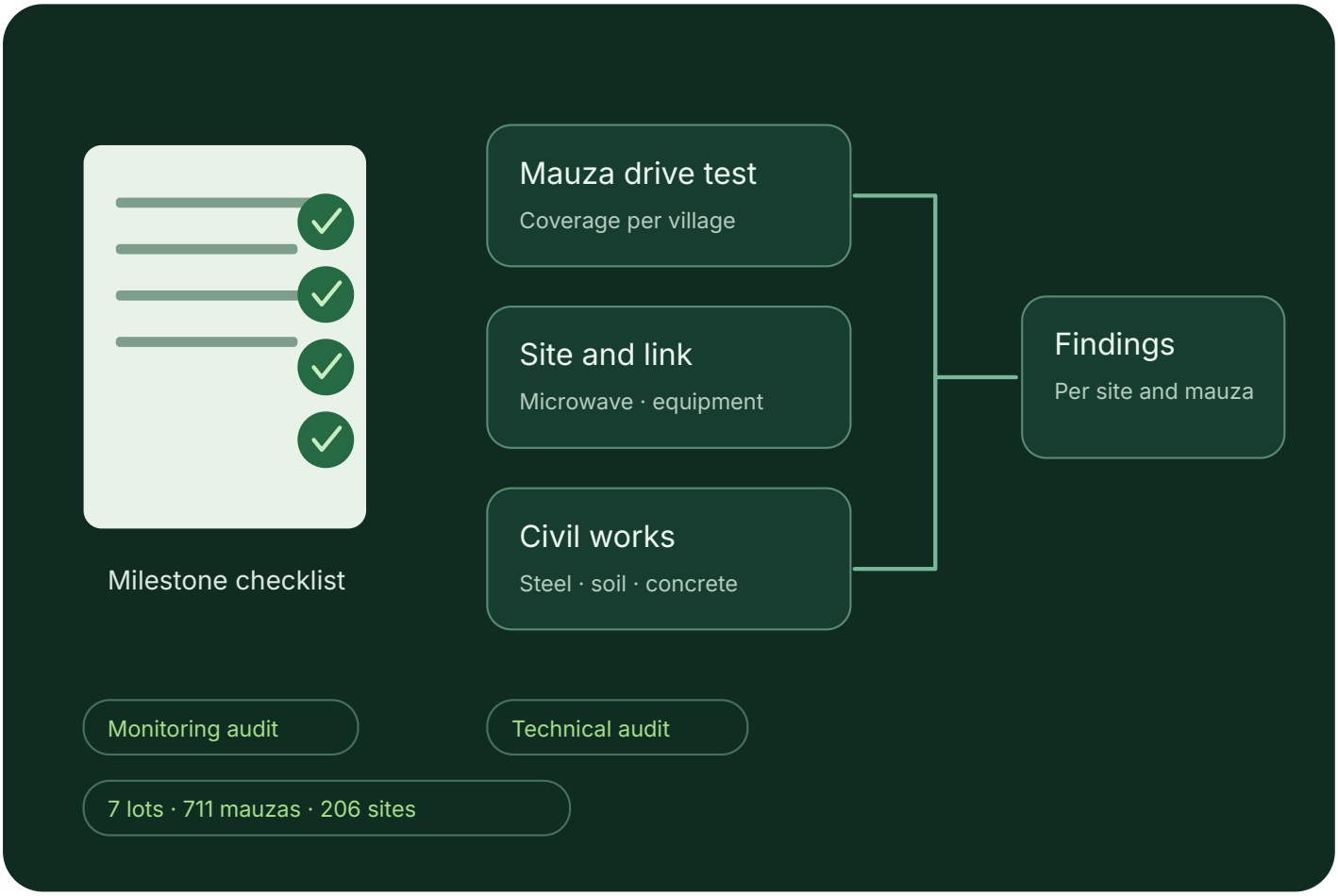
A funding body needs independent evidence that the sites, links, equipment and civil works claimed at a milestone really exist and meet the specification.

Agree the lot, the milestone and the audit type, then the drive and site-visit plan and the structure of the findings report.

ARCHITECTURE & HANDOFFS

Field evidence for every milestone

Audits combine RF measurement with physical and civil checks, so a milestone is backed by evidence from the field.



Conceptual product flow · Technical & Monitoring Audits

01

Drive-test the mauzas the lot must serve.

02

Inspect sites, microwave links and installed equipment.

03

Verify steel, soil and concrete, then report the findings.

DISCUSS YOUR ENVIRONMENT

Confirm the source systems, responsibilities and integration boundaries during the walkthrough. The diagram explains the product concept; the deployment scope is agreed for your environment.

TRACK RECORD

Work we have delivered

Named programmes where Exceleron Communications has delivered technical & monitoring audits.

01 Universal Service Fund audits across 7 lots in Pakistan: 711 mauzas and 206 sites, from Khyber to Kech.

7	711	206	2
USF lots audited	Mauzas tested	Sites verified	Audit types

TECHNOLOGY 1

Understand the connected pieces

Formats, protocols and tools in the product scope, with plain-language explanations for technical and business readers.

Monitoring audit

An audit that checks a funded programme's progress and coverage at a milestone.

Technical audit

A detailed audit of installed sites, links, equipment and civil works.

Microwave link

A point-to-point radio link that carries traffic between sites.

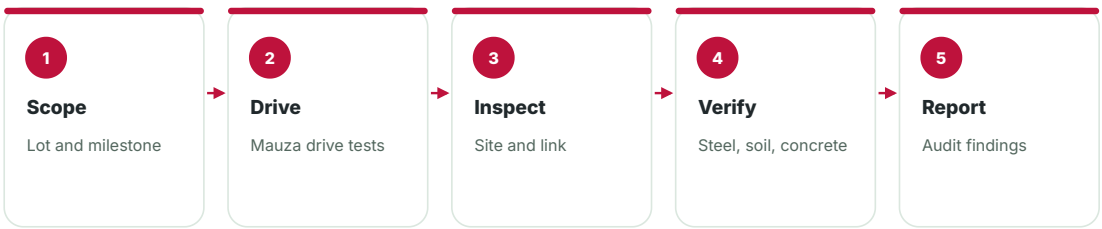
Single site verification

Checking a new or changed site for coverage, KPIs and installation before acceptance.

Mauza

A revenue village in Pakistan, the unit that rural coverage programmes are measured in.

THE AUDITS OPERATING FLOW



INTEGRATION PLANNING

Agree the source systems, supported versions, data ownership and access requirements during discovery. Validate the relevant interfaces against your environment before production rollout.

SPECIFICATIONS 1

The scope in detail

Use these product details as the starting point for a technical discussion.

Area	Product scope
Sibi lot	Monitoring audit · 70 mauzas · 32 sites
Islamabad small lot	Technical audit · 12 mauzas · 2 sites
Balochistan B-1 small lot	Monitoring audit · 20 mauzas · 8 sites
Shangla lot	Monitoring audit · 38 mauzas · 21 sites
Khyber lot	Technical audit · 428 mauzas · 114 sites

SPECIFICATIONS 2

The scope in detail

Use these product details as the starting point for a technical discussion.

Area	Product scope
Awaran–Lasbela	Monitoring audit · 65 mauzas · 14 sites
Kech lot	Technical audit, milestone 1 · 78 mauzas · 15 sites

ASSURANCE & NEXT STEPS

Prepare for a successful rollout

Match the product scope to your people, systems and operating requirements.

PRODUCT ASSURANCE

- **Independent field evidence**
- **Findings per site and mauza**
- **Civil and RF checks together**
- **Milestone-based reporting**

PLAN THE ENGAGEMENT

01

Discover

Review your current process, source systems, users and constraints. Identify the operational problem the first phase should solve.

02

Demonstrate

Agree the lot, the milestone and the audit type, then the drive and site-visit plan and the structure of the findings report.

03

Validate

Agree the applicable product scope, access controls, integration checks and acceptance criteria. Confirm deployment and support responsibilities.

04

Handover

Plan user guidance, operational ownership and support contacts. Confirm the reporting cadence and review process for the agreed scope.

START A CONVERSATION

Explore Audits with our team.

Bring your operational scenario. We will walk through the relevant workflow and discuss a suitable scope.

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