



RE & STORAGE ADVISORY · STEP 04 · PMC & INDEPENDENT OVERSIGHT · SCHEDULE

Commissioning & Acceptance Test Schedule

Witnessed test plan covering FAT/SAT, protection testing, grid compliance and reliability run leading to provisional acceptance.

Worked example (anonymised): Standalone BESS Independent Engineer Mandate · 400 MW / 800 MWh LFP battery energy storage system · Western India, grid-connected at 220 kV. Engaged as lender's independent engineer through 14-month EPC construction, covering container yard civil works, PCS/transformer installation, protection testing and grid compliance studies ahead of commercial operation.

Sample excerpt · Commissioning Test Plan (Extract)

Test	Standard/Reference	Witness Party	Planned Week	Result
PCS FAT	IEC 62477-1	IE + Contractor	Wk 20	Pass
Battery module SAT	IEC 62619	IE + Contractor	Wk 32	Pass
Protection relay testing	IEEE C37 series	IE + DISCOM	Wk 40	Scheduled
Grid compliance test	CEA regulations	IE + SLDC	Wk 44	Scheduled
72-hr reliability run	PPA/Contract spec	IE + Owner	Wk 46	Scheduled

Notes

- Aligned with grid code compliance and PPA performance guarantee clauses
- Forms basis for provisional acceptance certificate issuance

What happens in this step

1. Mobilise site and design-office team; establish RACI, reporting cadence and document control aligned to EPC contract and lender requirements
2. Review detailed engineering, equipment datasheets and factory test plans for compliance with technical specification and grid code
3. Conduct scheduled and surprise site inspections covering civil, electrical BoP, mechanical erection and HV works with photographic evidence logs
4. Witness FAT/SAT, pre-commissioning checks, protection testing and grid synchronisation; validate as-built drawings against design
5. Independently verify contractor progress claims, cost-to-complete and variation requests before certifying milestone payments
6. Prepare monthly lender/independent engineer reports covering schedule variance, risk register, HSE incidents and insurance compliance
7. Support performance test witnessing, punch-list closure and handover to O&M; for provisional and final acceptance certificates

Outcomes

- Independently verified progress and quality, reducing payment disputes and variation claims
- Lender and investor confidence maintained through transparent, bankability-standard reporting
- Early identification and mitigation of schedule, cost and interface risks before they escalate
- Smooth handover to operations with clean as-built documentation and acceptance certificates

Want this for your project? Write to info@growthifye.com or use the Contact page — we will scope the real deliverable set for your capacity, state and lender requirements.