

Criteria	Technical requirement (Sub categories)	Required evidence
Technical Requirements	Mechanical Requirements	The service provider shall submit sufficient documentary and visual evidence to demonstrate that the proposed design fully meets the requirements of this specification. As a minimum, evidence may include:- System architecture and data flow diagrams showing all subsystems, interfaces, networks and integration with existing TFR systems.- Site layout drawings and equipment arrangement (plan, elevation and cross-sections) indicating clearances, access, maintenance areas and cable routes, security systems.- Electrical and communication schematics.- Functional Design Specification (FDS) describing operating principles, measurement methods, algorithms, alarms, diagnostics, trending, prognostics and reporting.- Data dictionaries listing all measured and derived parameters, units, sampling rates, thresholds and alarm levels.- Example screenshots, sample reports, dashboards and trend plots for key condition indicators.- Performance evidence from reference installations (e.g. test reports, acceptance certificates) demonstrating compliance with accuracy, availability and throughput requirements.- Photographic evidence or as-built examples of similar installations, including harsh-environment deployments where applicable.- Proposed test plans and procedures (Factory Acceptance Tests, Site Acceptance Tests, performance tests) clearly linked to the specification requirements.
	Electrical requirements	
	OHTE Condition detection	
	Pantograph Condition Monitoring	
	Arcing and Sparking Detection	
	Video Surveillance and Analytics	
	Real-Time Obstacle and Intrusion Detection	
	Data Handling and Fault Classification	
	User Configuration and Access Control	
	Power Management and Autonomous Operation	
	Data Continuity and GPS Independence	
	Fault Notification and Alerts	
	Alert message requirements	
	System Performance and Speed Range	
	Additional Requirements	
	Commissioning	
	Calibration and maintenance requirements	
	Documentation and training requirements	
	Quality assurance	
	Packaging, storage and handling	