AMUSEMENT PARK SETUP SERVICES

TURNKEY THEME PARK ENGINEERING, RIDE PROCUREMENT & PROJECT EXECUTION

Service Specification Sheet
Ref: APS-SETUP-2026

Our **Amusement Park Setup Services** deliver end-to-end solutions for outdoor theme parks, family entertainment centers (FECs), and adventure parks. From site master planning and thrill ride procurement to civil foundation engineering, safety certification (ASTM/EN/ISO), and operational commissioning, we ensure safe, high-capacity, and profitable park setups.

SCOPE OF SETUP SERVICES

- **Master Planning & Concept Design:** Thematic layout planning, footfall movement modeling, and 3D architectural master plans.
- **Civil & Foundation Engineering:** Reinforced concrete ride anchors, structural load calculation, and trenching layout.
- **Safety Standards & Inspection:** Compliance with ASTM F2291 / EN 13814 international ride safety codes.
- **Ride Procurement & Selection:** Thrill rides, roller coasters, Ferris wheels, bumper cars, and kiddie rides from certified OEMs.
- **Electrical & Control Infrastructure:** Substation integration, backup generators, drive controls, and emergency shutoff systems.
- **Ticketing & Access Controls:** RFID/barcode turnstiles, POS integration, queue management, and CCTV security design.

TECHNICAL BENCHMARKS & EXECUTION SPECIFICATIONS

EXECUTION METRIC	SERVICE SPECIFICATION & STANDARD
Land Footprint Options	FEC/Indoor: 1,000–5,000 m² | Outdoor Park: 5–25+ Acres
Ride Safety Standard Compliance	ASTM F2291 / EN 13814 / ISO 17842 / GB 8408 Certified
Ride Category Mix	Extreme Thrill (30%), Family Rides (40%), Children/Kiddie (30%)
Structural Foundation Engineering	M35/M40 grade reinforced concrete with dynamic vibratory load anchors
Power Infrastructure Sizing	Dedicated 3-phase high-voltage substation with dual auto-changeover DG backup
Ticketing & RFID Access Control	Automated turnstiles, cashless wristband POS, and central cloud revenue tracking
Queue Line & Shading Design	High-throughput serpentine queues with misting fans and UV-rated canopy structures
Emergency Systems & Grounding	Centralized E-Stop loop, surge protection, lightning arrestor grids, and fire suppression
Deliverables Included	Feasibility Report, 3D Master Plan, MEP Drawings, Ride Tenders & Third-Party Audits

EXECUTION METRIC	SERVICE SPECIFICATION & STANDARD
Turnkey Project Timeline	6 to 18 Months (Depending on park scale and custom ride fabrication)

KEY IMPLEMENTATION PHASES

Phase 1: Planning

Site survey, market feasibility study, zoning clearance, revenue modeling, and 3D thematic design.

Phase 2: Build & Procure

Civil foundation construction, OEM ride fabrication, power substation setup, and MEP installation.

Phase 3: Testing & SOPs

Third-party safety audits, NDT weld inspections, staff operational training, and grand opening launch.

* All ride installations undergo 100-hour continuous load testing and third-party safety certification prior to public commissioning.