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## Technical building equipment for telecommunications facilities

### Performance spectrum:

#### **1. On-site investigation and documentation of structural facts**

#### **2. Planning and projecting of structural engineering facilities**

1. Investigation and analysis of fire protection measures and static aspects
2. Investigation of loads to be expected and construction of necessary measures for load splitting
3. Planning and projecting of rebuilding, expansion or repairing measures
4. Constructional planning for the set-up of battery and power network back-up facilities on-site

#### **3. Planning and projecting of electrical facilities**

1. Preparation of power distribution for the electrical engineering
2. Planning and projecting underground supply networks in a 20 to 0,4 kV power range with feed line, counting and special potential equalisation
3. Planning and projecting electrical facilities for the supply of telecommunication facilities
4. Planning and set-up of inverter systems for securing 48 V DC-power supply
5. Planning and dimensioning of uninterrupted power supply
6. Planning the emergency power supply with power standby devices (diesel generators) including the exhaust gas duct
7. Planning the general electric installations (lighting, plugs etc.)
8. Planning the potential equalisation measures as well as lightning protection measures

#### **4. Planning and projecting of necessary HVAC**

1. Preparation of power distribution for HVAC technology
2. Planning and projecting of constructional measures for the set-up of system-related facility parts (e.g. cooling system)

#### **5. Planning and projecting complete security aspects**

1. Anti-burglar systems
2. Fire alarm systems
3. Access control
4. Leakage monitoring
5. Sabotage protection

**6. Planning of all route courses (fire protection, sandwich construction etc.)**

**7. Preparation of segment-specific performance specifications with further tasks**

1. Requesting offers
2. Evaluation of offers
3. Preparation of suggestions for contract awarding
4. Conducting contract negotiations and preparing ready-to-sign contracts

**8. Preparation of the necessary documents (e.g. TÜV-inspections), measurement protocols, application forms, documentation**

**9. Project management and construction supervision of all steps**