IS 17566:2021 - Key Locks for Security Equipment

The **IS 17566:2021** standard, developed by the Bureau of Indian Standards (BIS), sets forth the specifications for **key locks** used in **security equipment** like safes, strong room doors, and deposit lockers. Its objective is to ensure that these locks are resistant to unauthorized access and manipulation, contributing to the **secure protection of valuables**.

The standard defines key locks in various configurations, such as **single key locks, dual control locks, and cylinder locks**. Locks are categorized by their type and security grade, each with minimum requirements for active levers or pins, key control, and possible combinations (differs). For instance, **Type A** lever locks range from Grade A1 to A14, with higher grades indicating **increased lever counts** and combinations for enhanced security.

IS 17566:2021 outlines construction criteria to ensure durability and effectiveness. The lock must be operable only with the designated key(s) and should withstand physical stress without compromising the security equipment's integrity. **Performance** testing includes **endurance** (cyclic) tests, **bolt forcing** tests, and **corrosion resistance** through a salt spray test. Locks are also subjected to manual operation tests post-exposure to verify ongoing functionality.

Materials used in the lock components must meet specific strength and corrosion-resistance standards, with options like **brass, zinc alloys, and stainless steel** commonly specified. Locks must bear a permanent marking with the BIS standard mark, manufacturer details, and the year of manufacture, while keys are assigned unique identification numbers for traceability.

This standard ensures that key locks meet stringent security and durability requirements to standardize and certify high-quality products across India.