IS 785 : 1998 REINFORCED CONCRETE POLES FOR OVERHEAD POWER AND TELECOMMUNICATION LINES – SPECIFICATION

IS 785 : 1998 covered reinforced concrete poles used in overhead electric power transmission, telephone and telegraph circuits. These poles are manufactured by mechanical compacting method such as vibration, shocking, spinning etc. to enhance its strength and ability to resist environmental forces, ensuring reliable performance for long periods. As these poles mainly intended for overhead power transmission and telephone lines transmission, these are designed for ensuring structural safety and durability considering resilience in outdoor environments.

Users of these poles expect that poles manufactured by implementation of various provisions of IS 785 will be durable, stable, meets requirements of dimensions and design and of high quality to meet the desired properties including ease of installation etc.

The standard addresses these consumer expectations through guidelines covering materials, design, manufacturing processes, and testing protocols. By specifying the use of high-quality cement, aggregates, and reinforcement that meet Indian Standards, it ensures the durability and corrosion resistance of the poles. The standard also outlines detailed requirements for design elements like mounting height, load-bearing capacity, and bending resistance, ensuring that poles meet structural safety standards. It mandates strict manufacturing processes, including designing of reinforcement as per IS 456, compacting and curing, which promote a uniform finish and structural integrity.

Furthermore, standardized testing protocols for testing on concrete, transverse strength, dimensional requirements, and sampling provide quality assurance ensured that each pole meets both safety and aesthetic expectations.

Through these specifications, IS 785 : 1998 upholds high-quality parameters, ensure the product with consumer needs for safety, reliability, and longevity in telecommunication and power transmission.