

## **IS 14220: 2018 : Openwell Submersible Pumpsets— Specification**

IS 14220: 2018 specifies requirements for openwell submersible pumpsets, focusing on design, construction, and performance to ensure efficiency and durability in applications like agriculture, water supply, and dewatering. These pumpsets, suitable for both single and multi-stage configurations, use single or three-phase AC induction motors and are designed for operation in submerged conditions, primarily handling clear, cold water, the characteristics of which are specified in the standard.

The standard details essential parameters, including material quality, motor design, electrical safety features, aimed at enhancing pump reliability. It outlines testing procedures to verify key motor performance characteristics and Hydraulic performance characteristics such as energy efficiency, temperature rise in windings, Starting Torque Test, Speed, Flow Measurement, Hydrostatic Pressure Test overall efficiency etc. Additionally, IS 14220: 2018 provides a reference for typical materials used in pump components, ensuring consistency and quality in manufacturing across different models.