



RESEARCH ARTICLE

TRANSFORMER – An Integrated System for Health Monitoring of Power Transformers

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Abstract— Transformers play an important role in the efficient transmission of electricity. Regular monitoring and maintenance can make it possible to detect new flaws before much damage has been done. Current systems can provide information about the state of a transformer, but they are either offline or very expensive to implement. This Monitoring system is primarily health monitoring equipment that can acquire, process, analyze & communicates the critical parameters to the concerned official who is at a remote place with the help of Auto dialing unit. Not only the conventional technical data, such as current, voltage, etc., but also other critical information such as frequency, oil temperature, oil level etc. of transformers is required by the operators to ensure reliable power delivery and to assist the day-to-day decision making activities. Thus, the system increases the reliability of distribution network.

Key Terms: - Transformers; electricity; Transmission & Distribution System; Auto dialing unit

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