

Unit III : Assessment: Assignments

Assignment – Lecture 49

1.

A three phase balanced load connected across a 3phase 400V ac supply draws a line current of 10A. Two wattmeters are used to measure input power. The ratio of two wattmeter readings is 2:1. Find the readings of the two wattmeters.

2.

In a two wattmeter method of measuring three phase power, one of the wattmeters indicate 10kW when powerfactor of the load is 0.5. Determine the new readings of the wattmeters when powerfactor of the load changes to 0.866 with total active power remains same as before.