

| ARM: To surgle and i | TEST ON SELL conduct the le phase transfor to regulation. TUS REQUERED | load test on mer jor find | | |
|----------------------|---|------------------------------|-----------------|----------------|
| | APPARATUS | RANGE | TYPE | QUANTITY |
| | Voltmeter | CO-300)V | MZ MZ | 1 |
| 02) | Ammeter | CO-10) A LO-20) A | M2 M2 | 1 1 |
| 03) | Wattmeter | 150 V, 20A 300 V, 10 A | UPF | 1 |
| 04) | Auto | 240V, 2.7KVA,10A | 230 23 | 1 |
| Nice | A USED: age Regulation Voz Sevon Jactor = Pous Pout 2 Sevon V2 2 Sevon | dary voltage | at a parter rea | eticular load. |

MODEL GRAPH: TABULATZON: S. Primary Primary Primary Secondary Secondary Secondary Power %. No Voltage Current Watter Voltage Current Watter Factor Regulation No Voltage Current watt V, CO) & CA) W, CW) V2(V) P2(A) W2(W) [038] % 1) 230.23 0.558 128.47 45 0.901 103.61 92-12 80-2) 230.23 0.626 144.72 115 1.06 121.90 92.12 84. 642-34 3) 280.23 2.79 118 5.51 92-12 98: 633.65 4) 230.23 0.845 194.54 1.51 173.65 115 39. 92-12 5) 230.23 3.72 85645 7-29 97. 838.35 92-12 MODEL CALCULATION? Power factor = Pout = 633.65 = 1 2 460 - 45 × 100 = 92.12%. Efficiency 2 Pont × 100 2 633.68 × 100

03) Percentage efficiency 2 (Pour / Pan x 100 Where, Pout 2 2 nd wattmeter reading in watts.
Pin 2 1 st wattmeter reading in watts. 01) Connections are given as per wrent diagram.
02) Verify whether the autoTransformer is kept at PROCEDURE: zero voltage position. 03) By closing the DPST switch, 230V, 1¢, 50HZ AC supply & given to the transformer. 04) At no load, the readings from the meters are 08) the load is applied to the transformer in step upto 125% of the rated value of the primary current by using rheostatic load. 06) the corresponding values from the meters are tabrilated for different loads. 07) then the load is removed gradually, autotransformer is brought to its minimum postion and the suply is switched off. 08) From the recorded values, the regulation, power joutor and efficiency are calculated Thus the striple phase transformer is constructed and its performance is RESULT: noted.