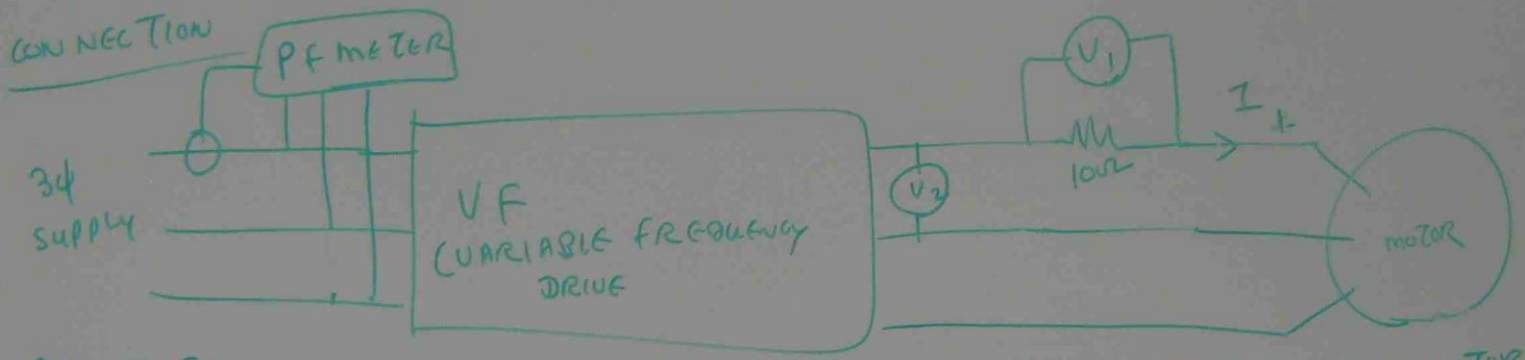
VARIABLE FREQUENCY DRIVE SYSTEM

AIM TO INVESTIGATE POWER, CURRENT DRAWN BY 3ϕ MOTOR DRIVEN BY VARIABLE FREQUENCY / VARIABLE DRIVE SYSTEM

CONNECTION



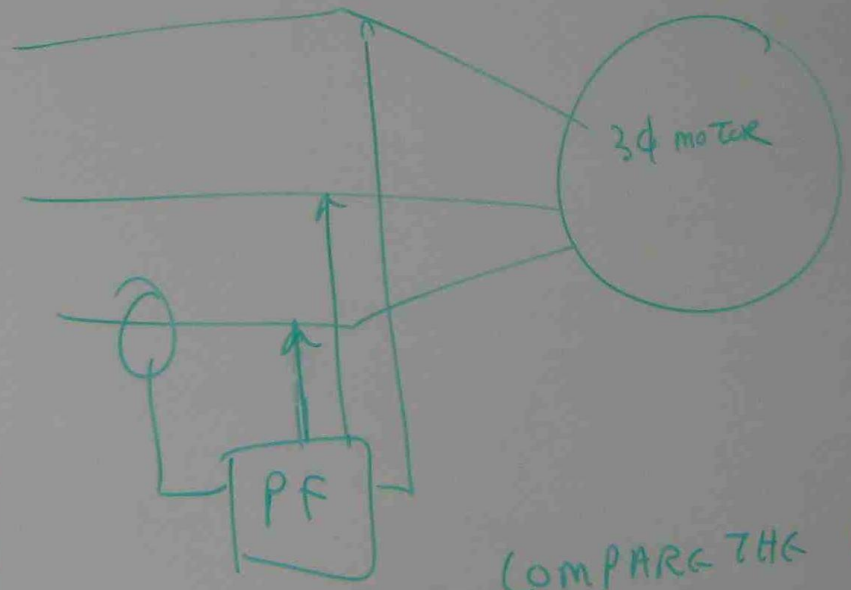
ADJUST FREQUENCY AND MEASURE THE CURRENT AND VOLTAGE ACROSS MOTOR

TAKE 3 → 4 READINGS

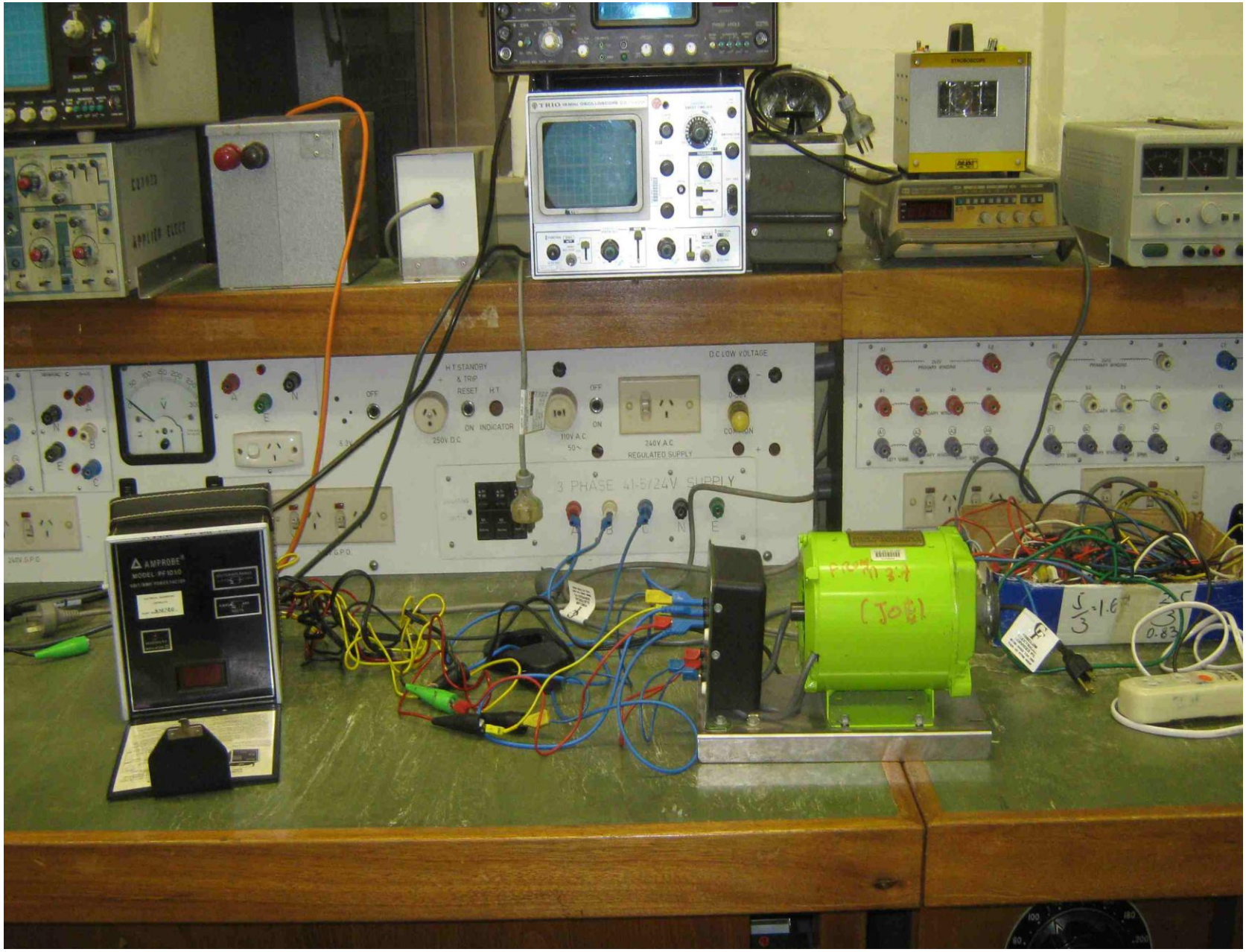
FREQUENCY	V_2	V_1	$I_1 = \frac{V1}{10\Omega}$	POWER (V.A) $= \sqrt{3} V_2 I_1$

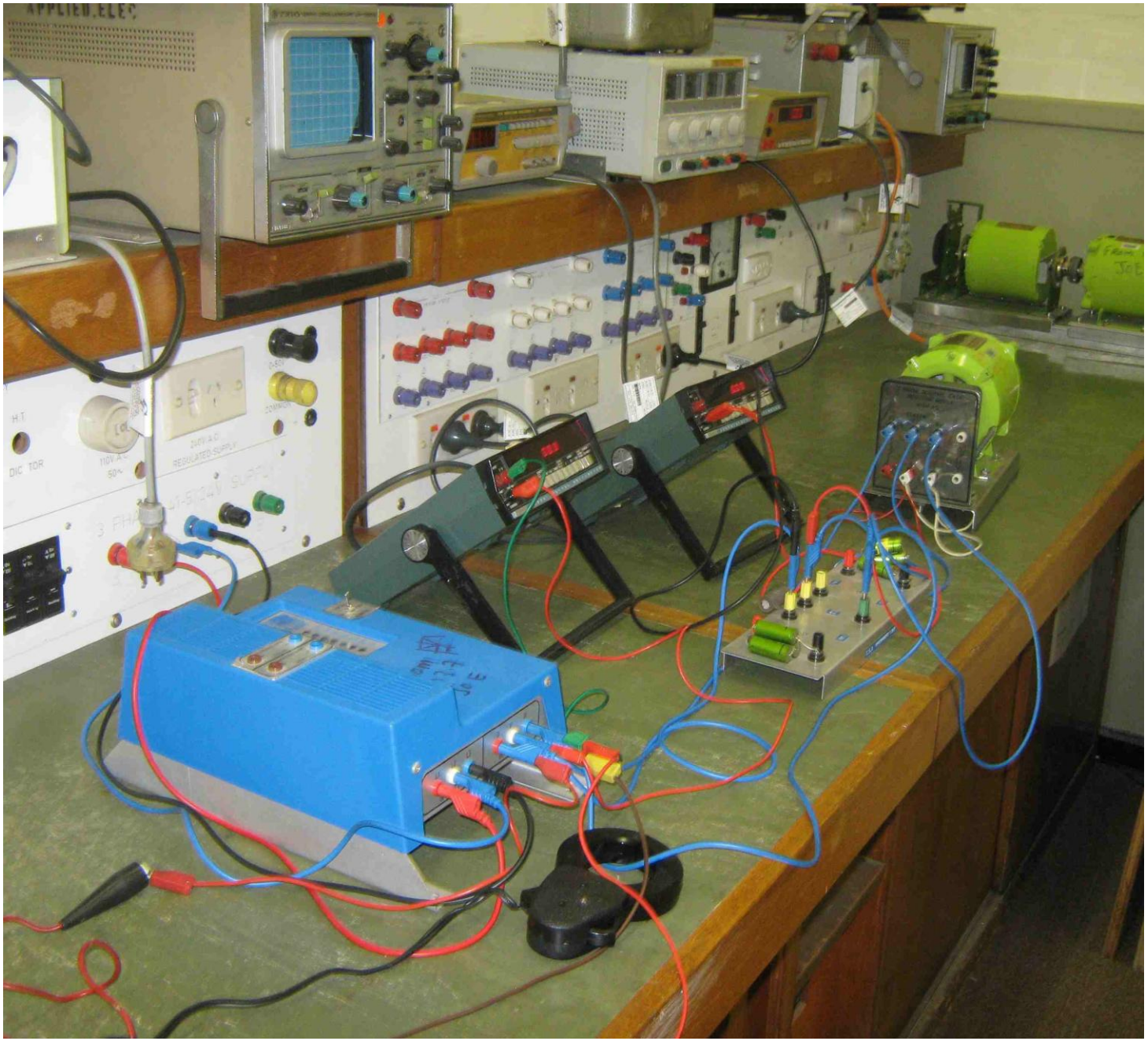
NOTE P.F METER READING AT SUPPLY TO V.F DRIVE

MEASURE P.F DIRECTLY ACROSS THE MOTOR



COMPARE THE READINGS.

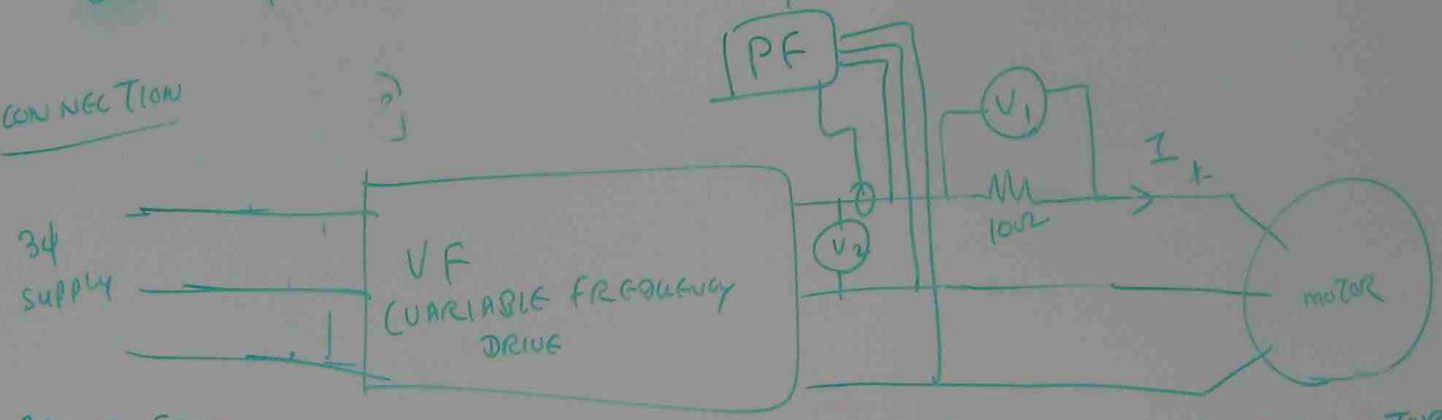

TRIO
H.T STANDBY
& TRIP
RESET
H.T
ON INDICATOR
250V D.C
110V A.C
50~
240V A.C
REGULATED SUPPLY
D.C LOW VOLTAGE
3 PHASE 415/24V SUPPLY
AMPROBE
MODEL PF 10 D
[Joe]



VARIABLE FREQUENCY DRIVE SYSTEM

AIM TO INVESTIGATE POWER, CURRENT DRAWN BY 3ϕ MOTOR DRIVEN BY VARIABLE FREQUENCY / VARIABLE DRIVE SYSTEM

CONNECTION



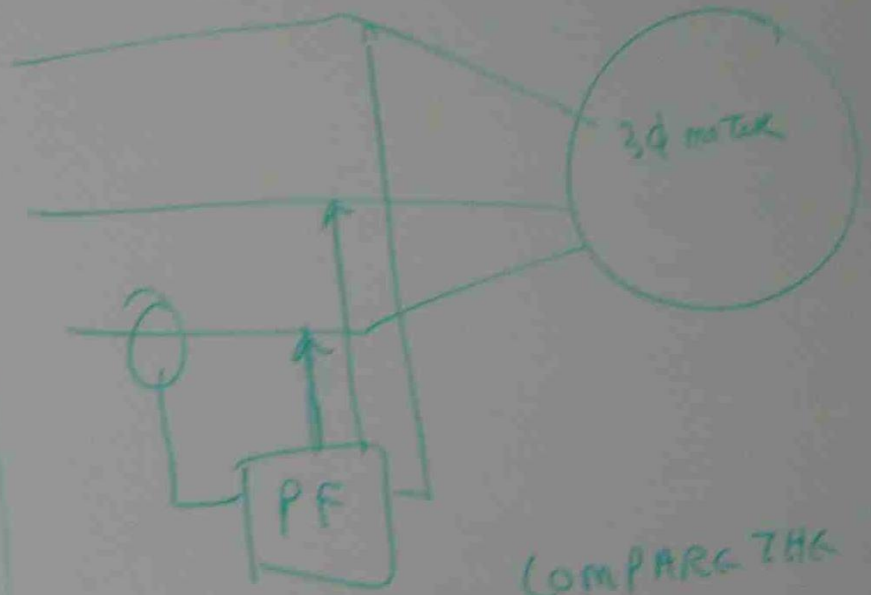
ADJUST FREQUENCY AND MEASURE THE CURRENT AND VOLTAGE ACROSS MOTOR

TAKE 3 → 4 READINGS

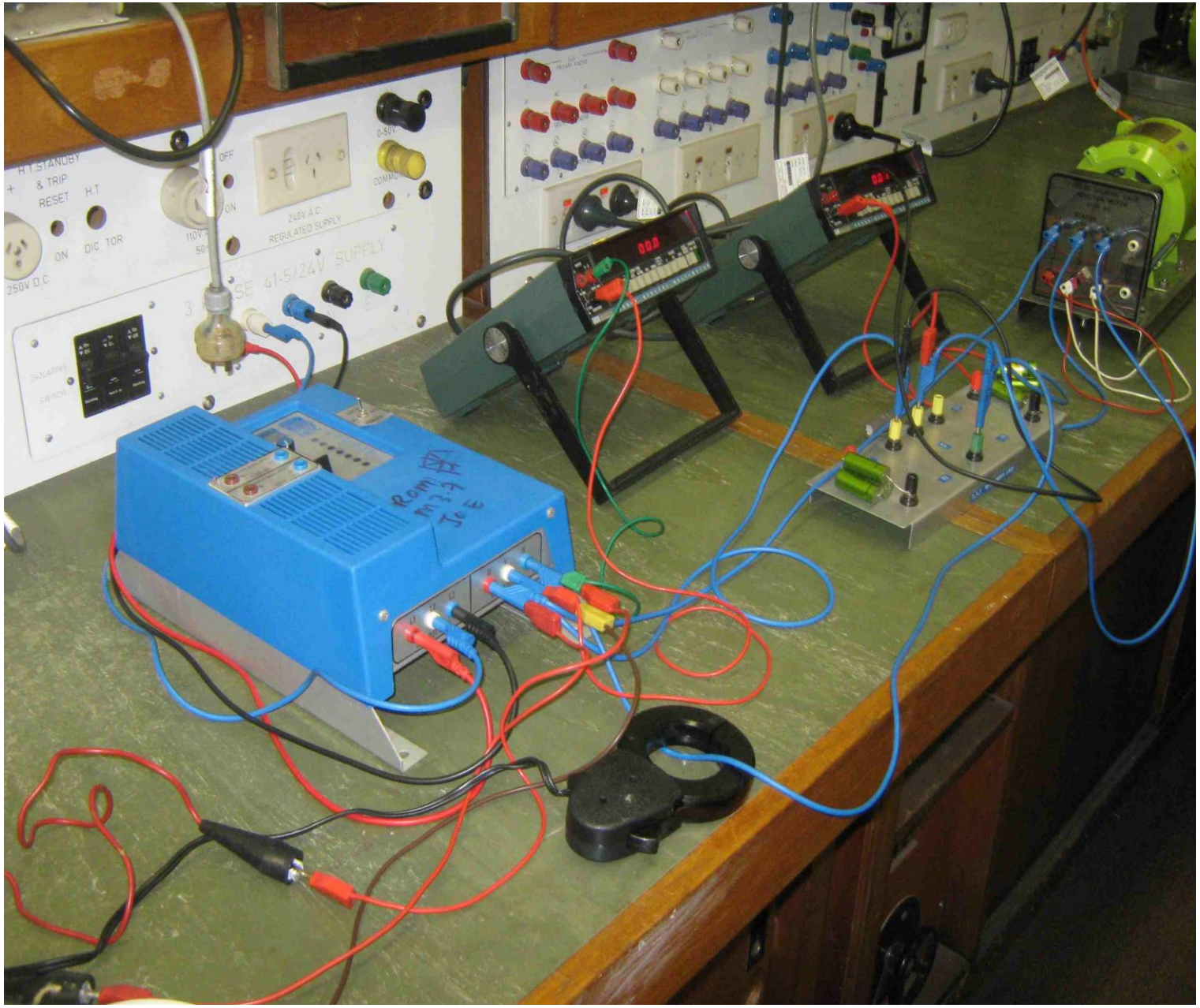
FREQUENCY	V_2	V_1	$I_1 = \frac{V1}{10\Omega}$	POWER (U.A) $= \sqrt{3} V_2 I_1$

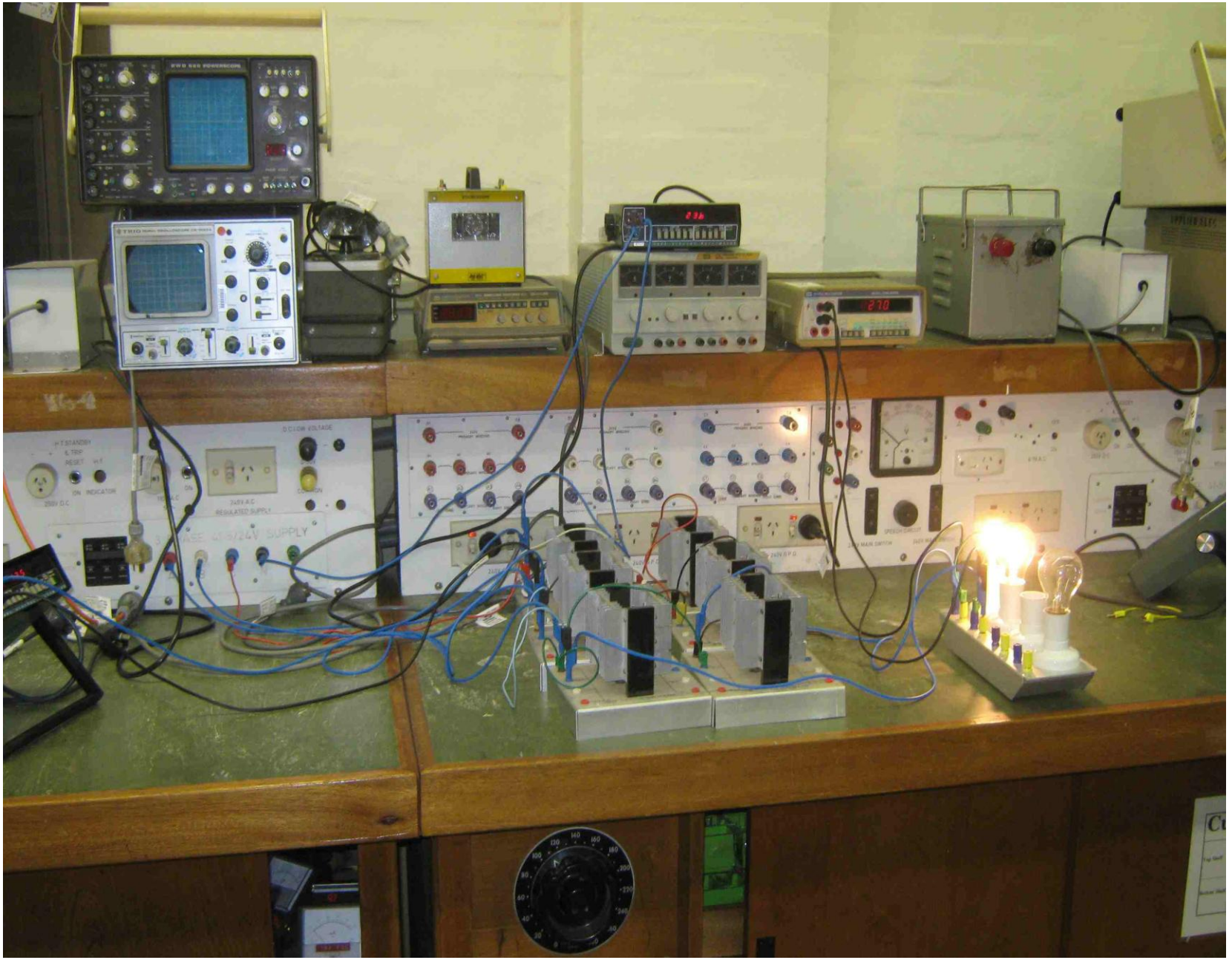
NOTE P.F METER READING AT SUPPLY TO V.F DRIVE

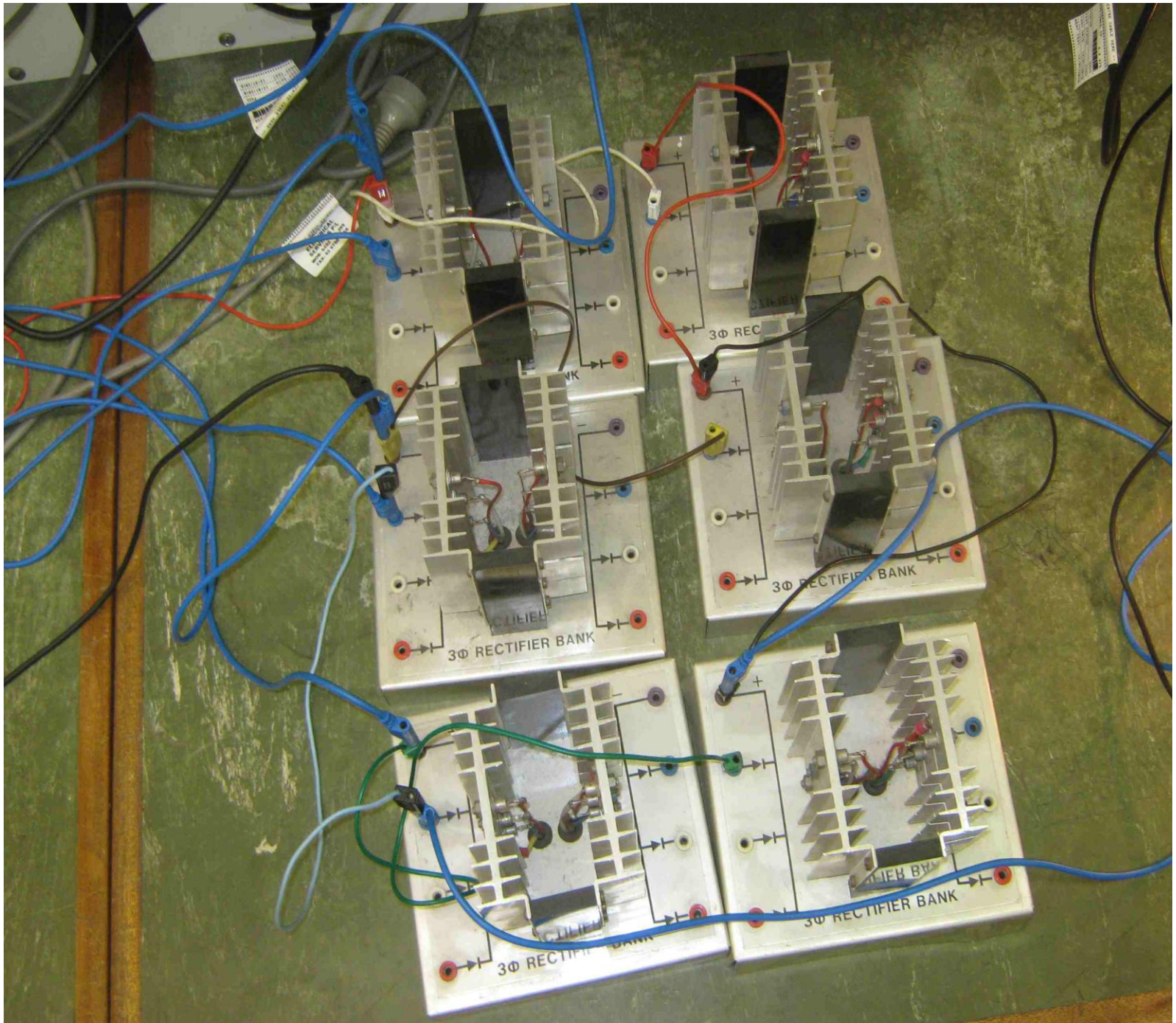
MEASURE P.F DIRECTLY ACROSS THE MOTOR

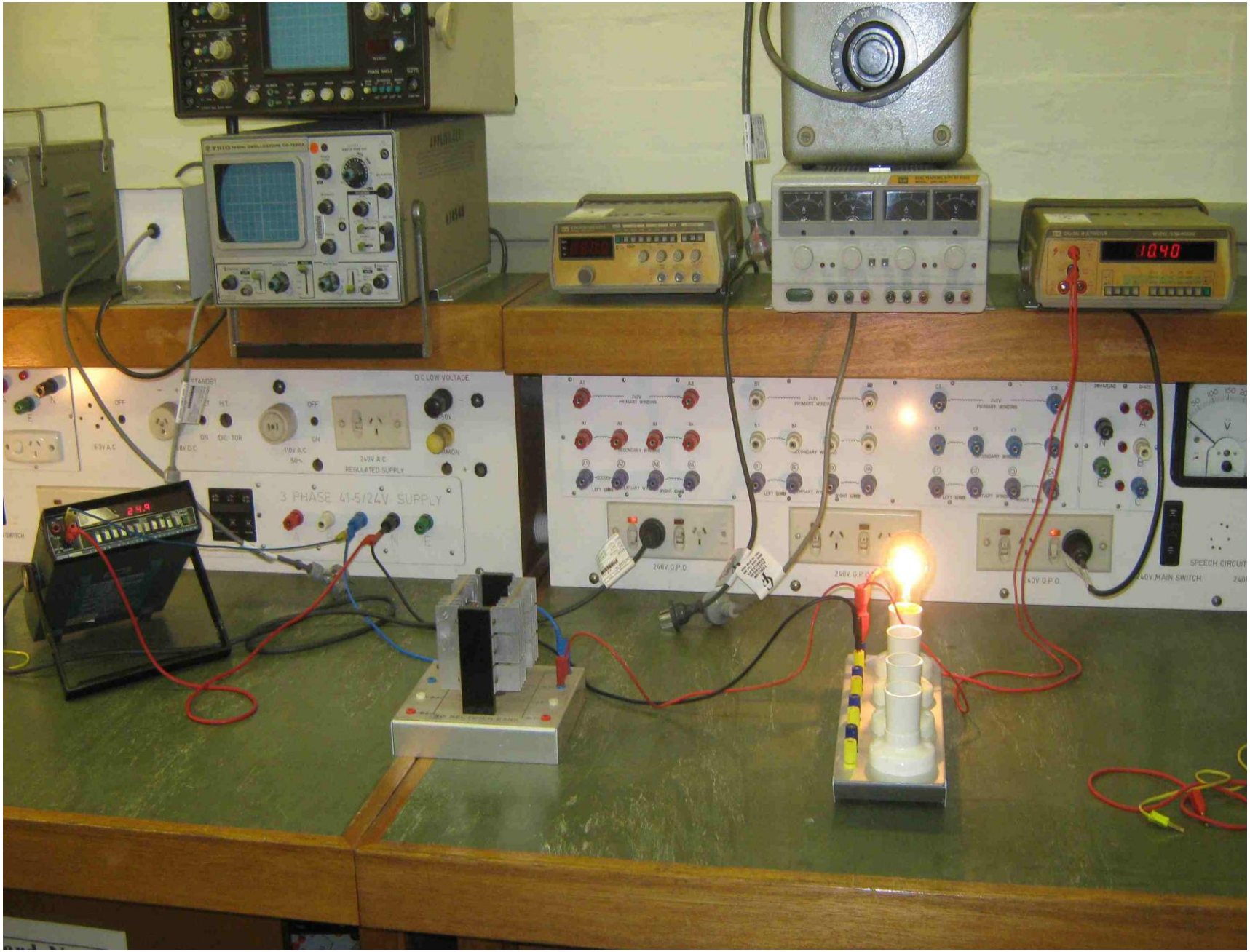


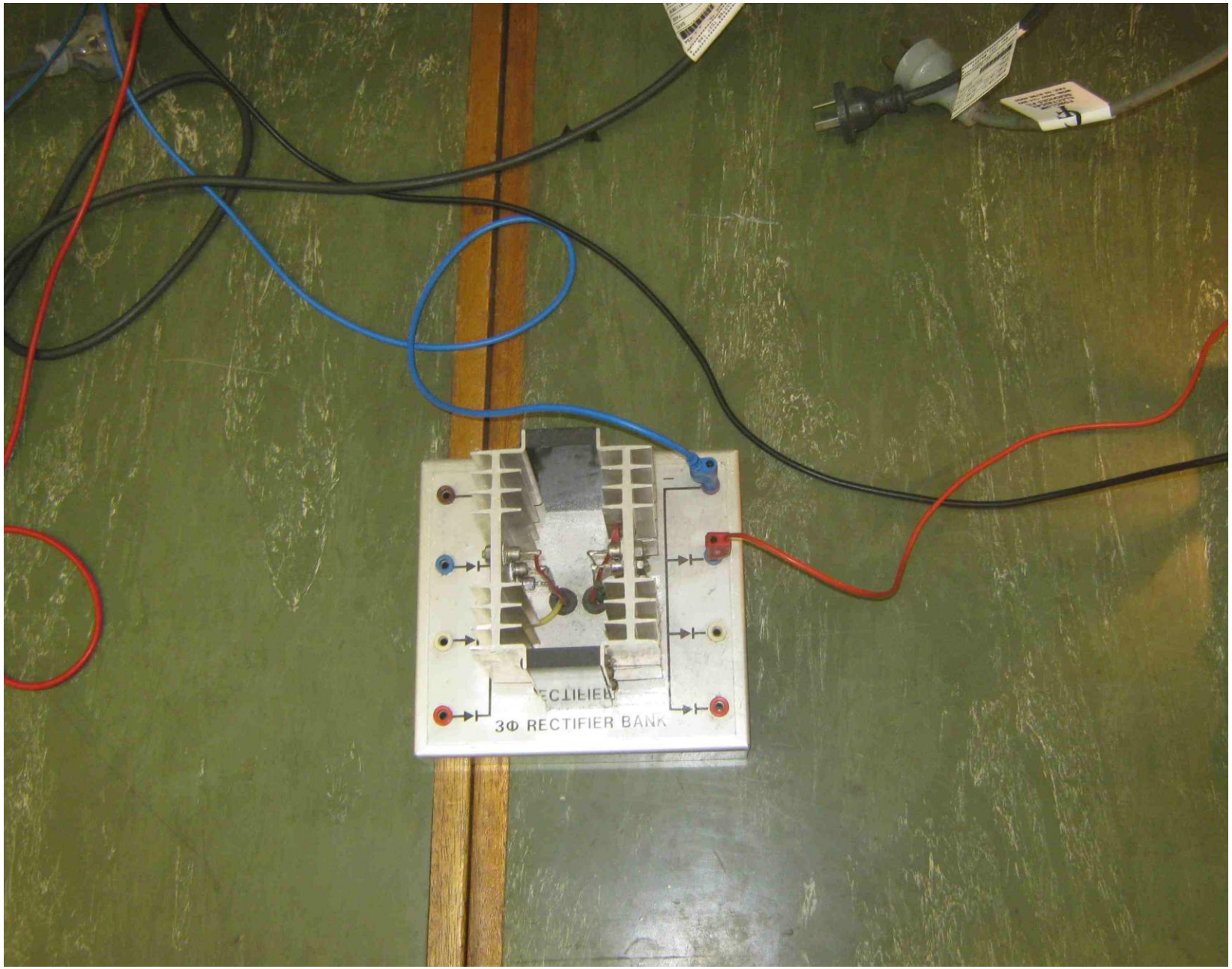
COMPARE THE READINGS.


H.T STANDBY
& TRIP
RESET
H.T
ON
OFF
240V A.C.
REGULATED SUPPLY
250V D.C.




3Φ RECTIFIER BANK
3Φ RECTIFIER BANK


D.C LOW VOLTAGE
240V A.C
REGULATED SUPPLY
3 PHASE 41-5/24V SUPPLY
240V G.P.O
240V MAIN SWITCH
SPEECH CIRCUIT


3Φ RECTIFIER BANK