

LABORATORY WORK SHEET

Name of the Student: Abdul Basith Khan				
	Roll Number			
Class J= Year (CSM-A) Semester Ist	00061010			
Course Code: #EEOO1 Course Name: EEE (aboratory	2345146667			
Name of the Course Faculty. Dr. L. Rajashekhar.	Goud Faculty ID HARE 11067			
Exercise Number: 13 Week Number: 13	Date: 22/01/2024			
DAY TO DAY EVALUATION:	, , , , , , , , , , , , , , , , , , ,			

DAY TO DAY EVALUATION:

Mark	Aim / Preparation	Algorithm / Procedure	Source Code	Program Execution	Viva -	
Marks		Performance in the Lab	Calculations and Results and Error		Voce	Total
Max. Marks	4	4	4	4	4	20
Obtained	4	4	4	3	4	19

Signature of Faculty

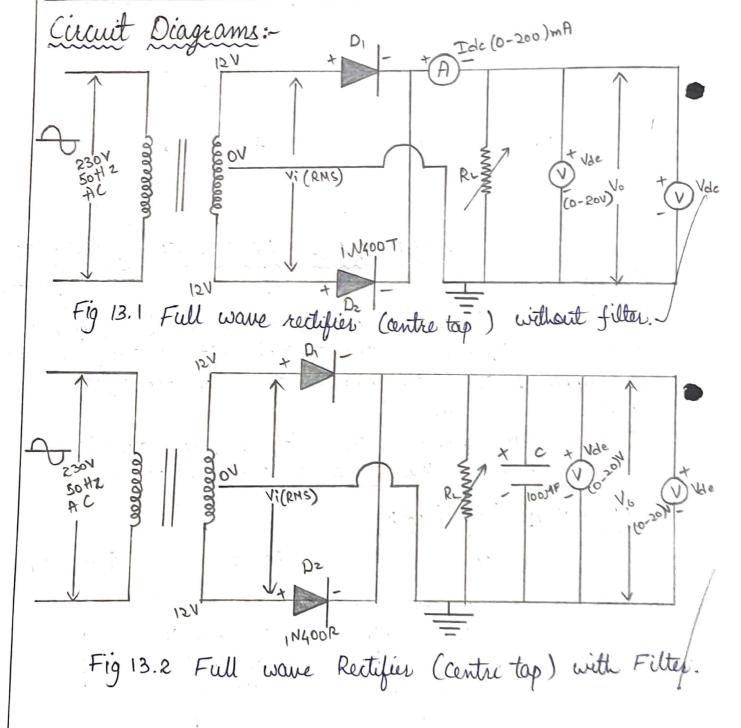
START WRITING FROM HERE: FULL WAVE RECTIFIER

Aim:~ Examine the input and output waveform of a full wave (centre tapped) rectifies without and with filters. Calculate the ripple factor with load resistance of 500 m, 1 km and 10 km respectively.

Calculate the ripple factor with a filter capacitor of 1007F and the load of 1kn, 2kn. & 10 kn respectively.

S.No.	Device	Range	Quantity
1.	Rectifier & Filter trainer Board Containing a> AC Supply		,
	Containing as AC Supply	(12-0-12)V	1
	by Silicon Diodes	1N4007	2
	cs Capacitor	100 MF	1
2.	a) DC Voltmeter	(0-20)V	1
C.	b) AC Voltmeter 1/4	(0-20)V	(

3.	DC Ammeter	(0-50)MA	1
	Cathode Ray Oscillioscope	(0-20) HHZ	1
5.	Decode Resistance Bon	10-1-100 KA	
6.	Electrolytic Capacitor	1007F	
7.	Connecting Wires	5A	12



2/4

Procedure:

Eull Wave Kectifier Without filter:

1. Connect the circuit as shown in fig 11.1

2. He just the load resistance R, to 500-2 & the readings of input and output through Oscilloscope.

3. Note the readings of DC current, DC voltage and Ar Voltage

4. Now change the load resistance R. to 1000 a and repeat the procedure as the above also repeat for lok-1.

5. Keadings are tabulated as per the tabular column.

Lull Wave Rectifier With filter:

1. Connect the circuit as shown in Fig-13.2

2. Adjust the load resistance R, to IKI and connect a capacitor of 100 HF values in parallel with the Good and note the readings of input and output voltages Through Oscilloscope.

3. Note the readings of DC Current, DC Voltages and

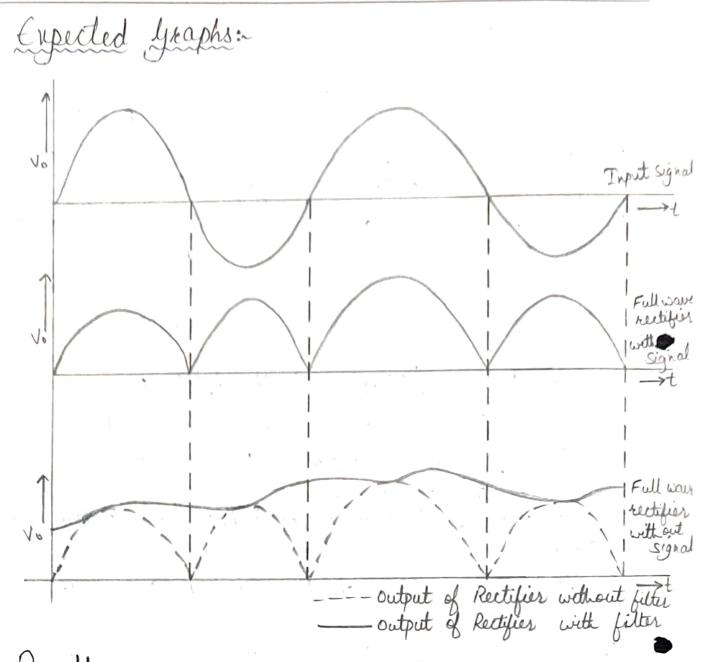
AC Voltage.

4. Now Change the load resistance Re to IKI and repeat the procedure as above. Also repeat for loka 5. Readings are tabulated as per the tabular column

Precautions:

1. No Coose contancts at the junction.

2. Meters of correct Range must be used for precision



Result:

Hence wave forms are observed in the given experiment.

