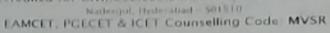


MATURI VENKATA SUBBA RAD (MVSR) ENGINEERING COLLEGE

(Sponsored by Matrusri Education Society, Estd 1980) Affiliated to Osmania University & Approved by AICTE
NBA Accredited for Civil CSE EEE ECE Mechanical & IT B E Courses
Nadespul, Indenatian - 501510





Note: Candidate to City	Roll	Nu	mbe	er:							-			
Note: Candidate to fill items carefully	2	4	5	1	-	1	8	- +	+	3,	1 -	0	2	5
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Zalis> Types of Do Inke ? 1) Honopolax (Priks 2) Bipolan links 3) Homopolan links. 3 dues Application of MIDC:

-) connects multiple De renewable energy farms to multiple power grads
- 2) Connecting multiple offshore wind farms to the power grid.
- 3) Transfer of bulk power from multiple remote Ac generating stateous to multiple load certein
- u) Allow interconnection blue two asynchrono -ous Ac power systems.

Eagust firing augle Control:

The operation of co and CEA controllery is closely linked with the method of generation of gale pulses for the requirements for the firing pulse generator of the requirements for the firing pulse generator of the requirements for the firing pulse generator

- 1) The firing instant for all the values are determined at ground potential and the fring signal rent to individual thyristors by light signal through fibre optics cables. The required gates power in made anailable at the potential of individual thyristor.
- a) While a single pulse in adequate to twon-on a thynistor the gate pulse generaled must send a pulse whenever in equined of the particular value in to be kept in a conducting state.

The two back fining schemes one 1) Individual phase control (IPC) Ur Equidistant Pulse Control (EPE) This was used to generate firing pulse for each phase that are independent of each other and are nightly synchronized with commitation voltages. This acheined in two ways (a) Contlait a control. (b) Inueure cosme Control. > (ourtail a Control: · six timing noltages are desired from the conventer AC bus via 10Hage transformer.

No Zero cross - Maniable - Maniable of gate pulse

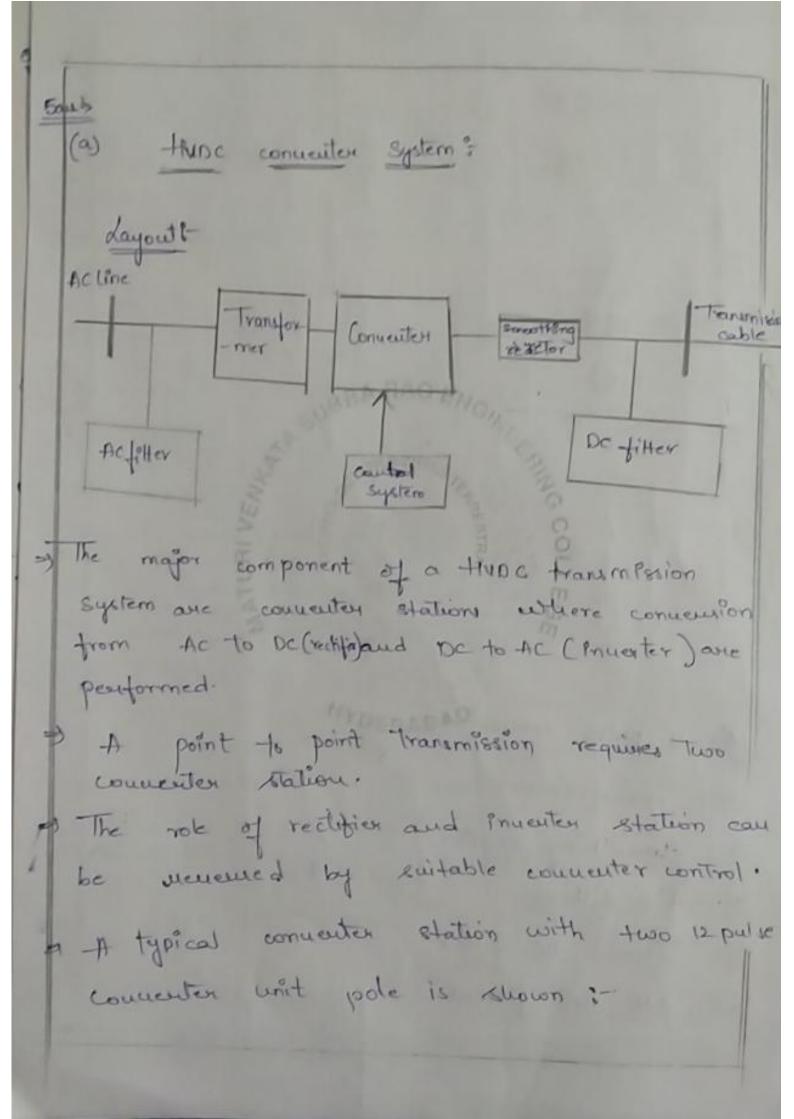
Trueme cosine control:

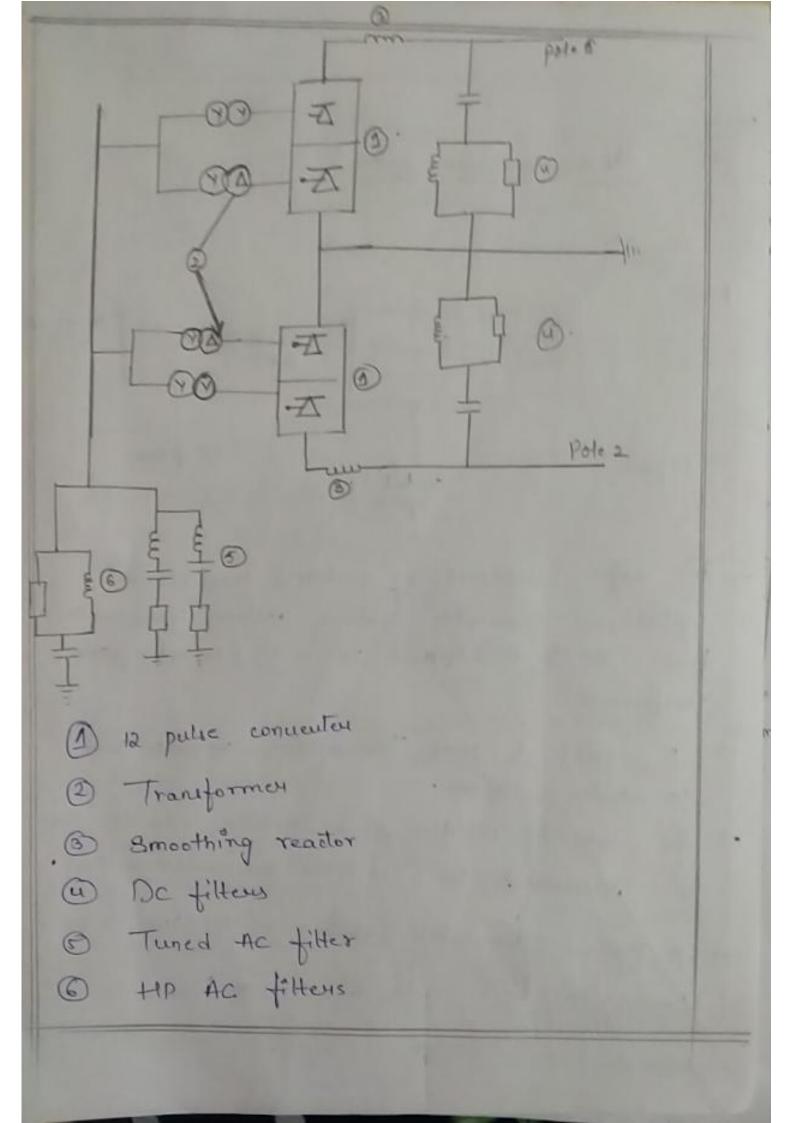
The six timing holtages one each phase shifted by 90° and sepenately added to common control Moltage V

-Vo -
I firing metant
The main advantages of this schene is that the
average DC Hollage across The bridge marrier
knearly with the content voltage to
Eggsdistant page combot is written in page 10. 6 bourd Companission between Series and fairables
LINDS A PERSON
Services MIDC System Panallel HIDC system
1) High speed renewed of o) High speed renewed of
power is possible in power in not possible in
saires system w/o mech parallel system.
2) The value voltage rating D) The convent rating in a
In a services 9s related to let system is related to
the power rating power rating.
3) For small power rating of The parallel connection
The lap received of seein has the advantage of staget
rang be cheapen even thoughdevelopment in the conventer value have to be insulated . stations by adding the conventer

A STREET

1	Source Sylve MIDC	Panallel 1000
	To full nottage to	as the power req moreover
10	There are increased losses in the line and realize in series system.	1) The losses in the line and realize in Hel system is less compared to severyto
-	Insulation co-ordination is a problem in series system.	5) Insulation co-ordination in not an essue in Hel system.
6	- inplete stutdown in	6) Whole in Hel system it would lead to complete shutdown of a connected station connected to the line section.
,	partiosphy in a series	F) In parallel HTDC extension is not straight- forward.
	Serves connection is appropriate for taps of rating less 20% of the major inventer terminal	8) Panallel connections are more new table and are mostly used as Pn Ac systems





exist in this system: exist in this system

