Pacio broadcasting and reception. Am Transmitter! 1000 bight of gi Signal amplification | Amplifier | Amplifier - the above figure shows the block diagram well the Am transmitter. the Transmitter can transmit the dm algnoss are knowns as Am Transmitter. - these transmitter are used in medicum wave and Short wave frequency wards for Am Broad cast. -> the medium wave as frequency blw the the consists of the different blocks is the amplifier, Am modulator, RF avcillator, power Amplifier.

pre amplifier! - the input to the pre Amplifier to audio Signal that is low frequency Signal the strength of the original to can be increase pre amplifier then its output amplified audio signal. -> the output of the pre amplifier is connected to the Am modulator. - 4 nother west RF oscillator !-In radio frequency oscillator the high frequency Carrier wave is generated by using Crystal Control - the output of the RF oscillator is connected to the dm modulator. It butters autolistian proupont Am modulator!-As signal and Ry signal are mixed to produce the Amplitude modulated wave. - the output of emplifude modelator is connected to the power Amplifier.

fower Applification and of light policy in filling the - It is used to increase the power level of the amplitude moduted wave and output of power amplifier is connected to the Antena for Transmission. In transmitter ? Andro PRE HPF FM Frequency power modulator multiplier Amp - frequency modulation method is used in from transmitter. in In Im frequency of the carrier dignations warred in accordance with amplitude of the modulating Signal Keeping sts amplitude is constant. s the transmitters find application in tadio. Iv audio broad casting and police wireless communication.

The frequency band extenses from 88-108 MHz s the fin tronsmitter consists of the different block

pre Amplifier, High pass filter, RF oschittor, Frequency modulto frequency multiplier, power Amplifier Mil Pre Amplifier'
The function of the pre amplifier is increase the Strength of audio signal and it provides amplified output to the High pass filter will and and the server you +ligh pass fitter!
- It allows Only High frequency components and reject the low frequency components for more than the hand of the section high pass filter is used as pres + ambasis network by using thigh pass filter we can reduce the noise of the dudio Signal and improve the Signal to Move ratto of the Audto Signal RF oschitlor!
By using radio frequency osicillator we can generate the freque corrier Signal

- It is a high frequency Carrier Signal.

frequency modulator, worth to de hand to be the total - the injuts to the frequency modulator is amplified andio signal and carrier signal. generate the fm wave frequency multiplier; frequency multiplier !-- By using frequency multiplier we can increase the frequency of the for olignal - In Im Signal the maximum frequency deviation is 75 KHZ and maximum modulating signal frequency of power Amplifier the man with power and should - the power of the carrier organil to then amplified in the power amplifer stage that is it can provides the required audio frequency power. s the output of the power Amplifiers Connected to the Antena Transmission,

Radio Heavers +

The primary organization of the communication receivers is should have the ability to select the desired signal from allong a no. of signal present and it's provides sufficent amplification to recover the modulating signal.

- -> Reciver perform the following functions!
- i) (dect the electro maganetic waves by transmitter.
- 2) desire Select the desire signal and neject all other underigned signal.
- 3) Amplify the Selected modulated signal.
- 4) detect the modulating Signal from the modulated
  - Signal

    5) Amplefy the modulating Signal operate the loud speaker.

Parameters of reciver ;

- 1) Sensitivity
- e) Selectivity
- 3) Flidelity.