

Date : Components: IV 1) Boiler: It consits of water tubes boiler shell & super heater feed water is supplied from economiser which is converted into wet steam in water tube Steam is generated at high pressure in boiler. @ Steam Turbine & Chenerator: -High pressure superheated steam from boiler expands in turbine to produce mechanical work. This work is used to oun generator which converts mechanical energy into electrical energy. Flew gases. Steam tyrbine Cold water in Condenser. Boiler Hot well Biomass energy plant. (3) condenser & condensate extraction pump! Steam from steam turbine is thrown out to condenser where steam is condensed by

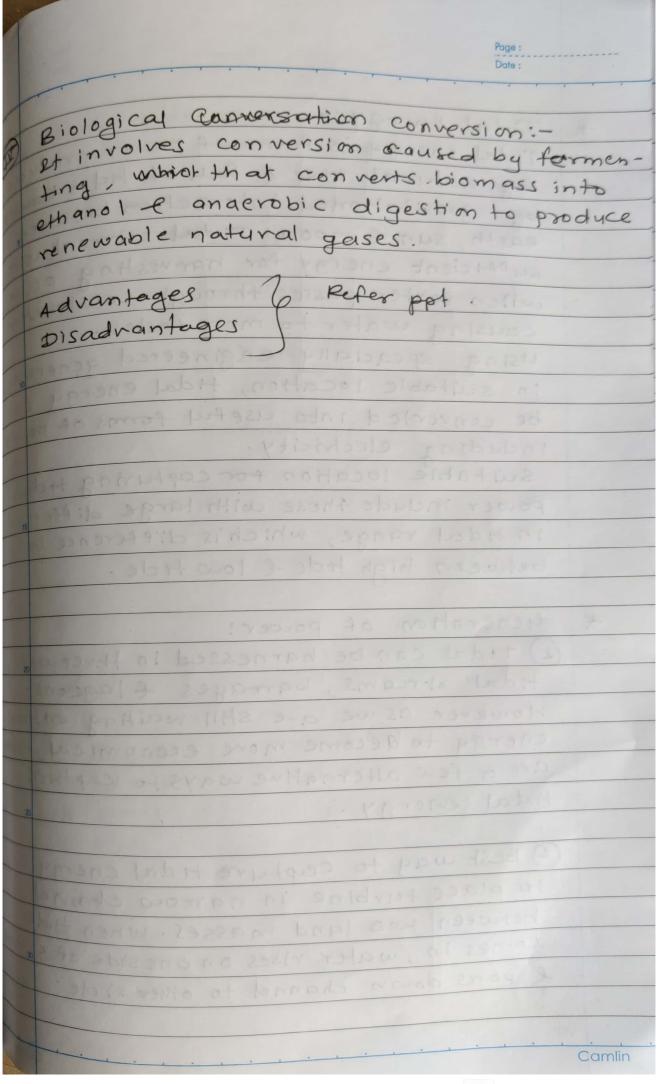
rejecting heat to circulated cooling water. Condensed steam is called condensate & given to hot well.

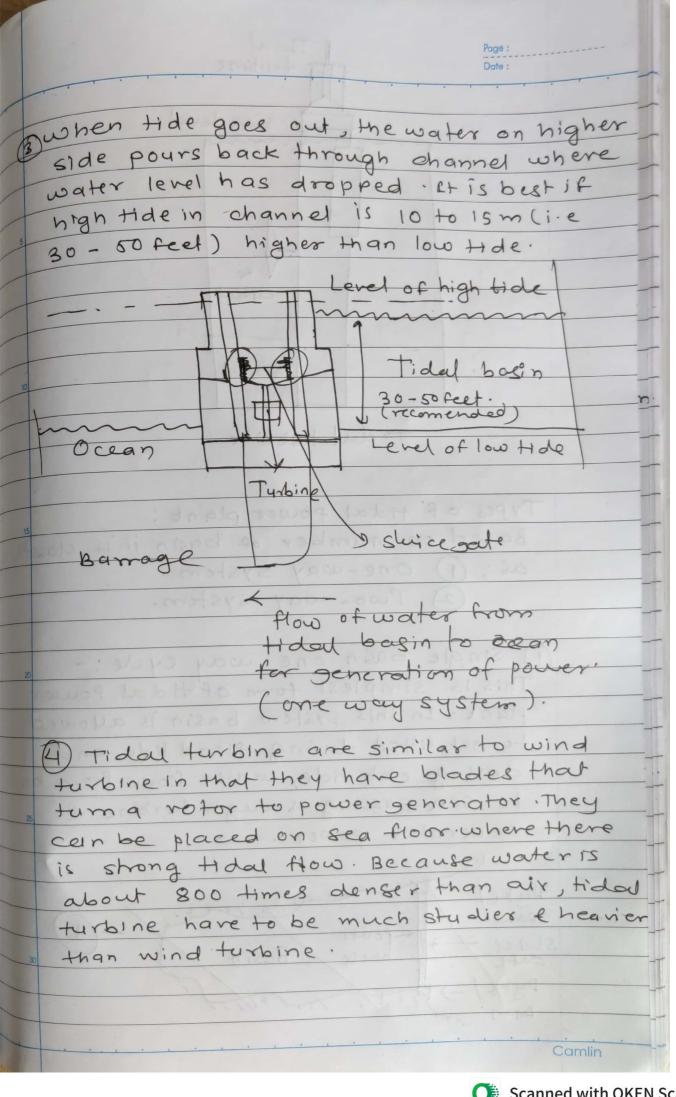
- 4) feed pump: condensate from not well with makeup water is fedback with help of feed pump et boiler pressure to economiza
- (5) Cooling tower: cooling water from cooling tower is supplied to condenser & absorbs heat from exhaust steam of steam turbine

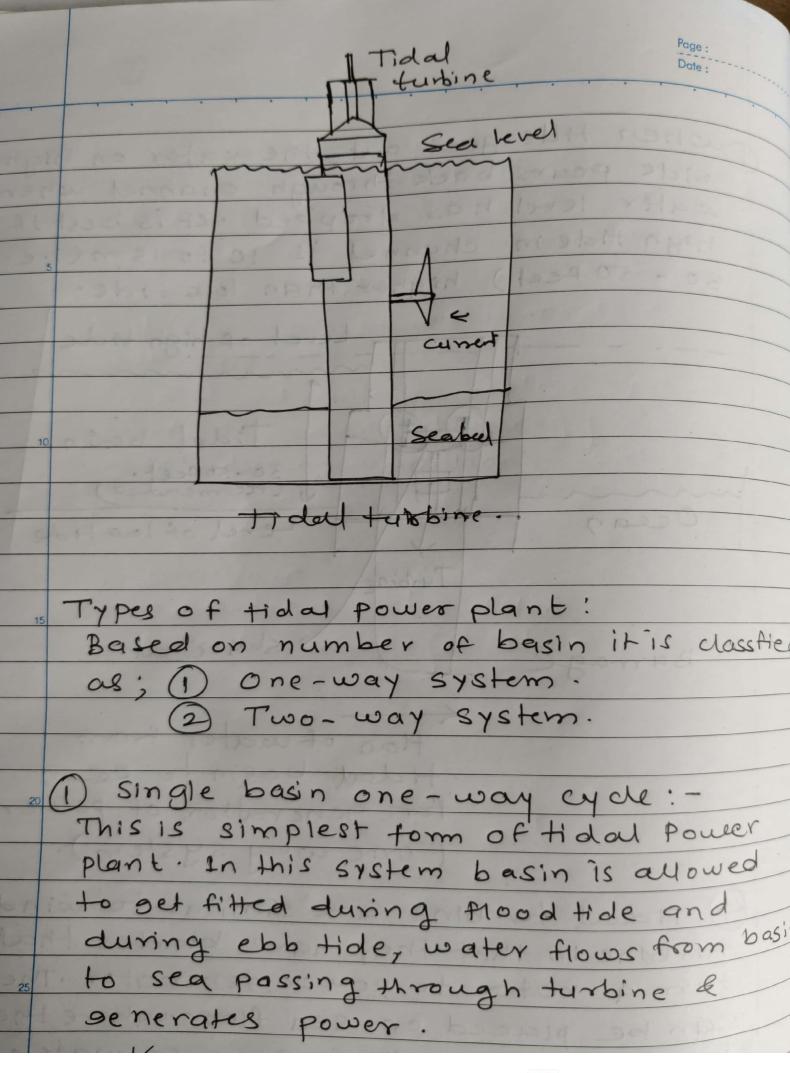
Extra components.

- 1 Blower: Blower draws somounding our needed for combuction of biomass. This air is supplied to air preheater (c.c)
- 2) Air preheater: It transfer heat to our drawn from sorrounding with help of hot flue gases before discharged to atmosp-here. through chimney. It Improves combuction efficiency.
- furnance: Heated air from air preheater is fed to furnance for fuel burning. Products of fuel combuction & air are flue gases.
- @ Economiser: feed water to boiler tube 15 heated with help of flue gases. It reduces energy needed for formation of steam.

Camlin







Double basin type: En this arrangement turbine is setup En this arrange...
between basins, one basin is intermittently
between basins, one basin is intermittently
drain
filled tide & other is intermittently
drain by end ebb tide. Therefore small capicity but continious power is made available with system. main disadvantage of this system is 50°/0 of potential energy is sarchice in introducing variation in water level of two basins. Dragram Advantages Disadvantages