

**Condenser: - Stroom gt condenses steam used by the steam turbine. The condensed steam (known as condensate) is used as a feed water.

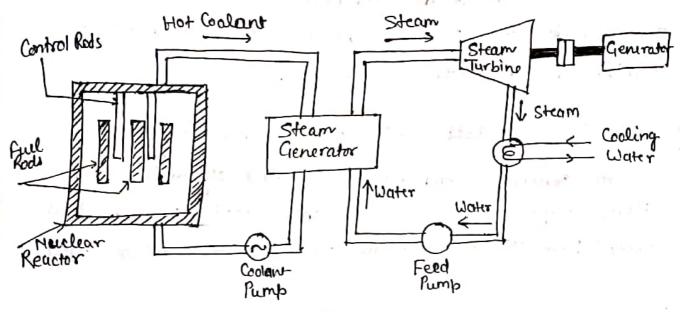
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- 5. Cooling tower : It cools the condenser circulating water.

 Condenser cooling water absorbs heat from steam. This hear discharged to asmosphere in cooling water.
- 6. Condenser <u>Circulating</u> water Pump: It circulates water through the condinser and the conding cooling water
- Feed water Pump: It pumps water in the water trubes of boiler against bailer steam pressure.
- 8. <u>Economiser</u>: It economiser heat in flue gases in partially ruled to heat incoming feed water.
- 9. Air propose preheater: In our preheater heat in flue gases (the products of combustion) is partially used to heat incoming eir.
- 10. Chimney: " It release the waste flue gases into atmosphere.

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Nuclear Power Plant >



Nuclear Power Plant

Nuclear Reactor:> यह nuclear Power Plant का वह आग है जहाँ nuclear full में nuclear fission की क्रिया होती है।

- (a) Muclear Fuel: Nuclear full of the Dranium (U235),
 Thorium (Th232) ATT Plutonium (P4230) ONT SEPTIT
- (b) Control Rody: ये nuclear fission process की उपनुप्रविध (control) करने का कारी करते हैं। इसके लिए भामान्यतः cadmium तथा carbon का प्रयोग किया जाता है।

Hot Coolent: Moster metal like liquid sodium or gas is used to transfer heat produced due to newlear Assion from the reactor to the steam generator.

Steam Generator: It is used to produce steam from healing up water by the help of heat transferred by the coalent from the reactor to the steam generator.

Steam Turbino:>> The houted steam is utilised to drive the steam turbine is coupled with the generator to with converts the mechanical energy of sturbine to an electrical energy.

Cooling tower: Cooled water is used to cool the steam turbine.

Steam converge comming from the steam turbine.

Here, vapour is condensed into liquid form and is feeded back to the steam generator for another eyeli.

Advantages:

1. The size of nuclear power plant is usually small compared to other power plants.

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- 2. Low fuel requirement result in low fuel cost
- 3. most econnomical in large capacity.
- 4. Extreamely flexible output control

Disadvantages!

- 1. Very sign initial cost
- 2. Greater technical requirement
- 3. High maintenance cost