

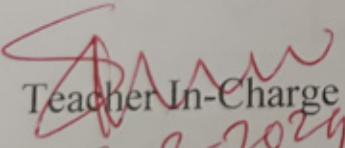
109
Shri. Doodhsakhar Shikshan Prasarak Mandal's
Doodhsakhar Mahavidyalaya, Bidri

DEPARTMENT OF PHYSICS

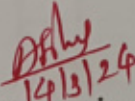
CERTIFICATE

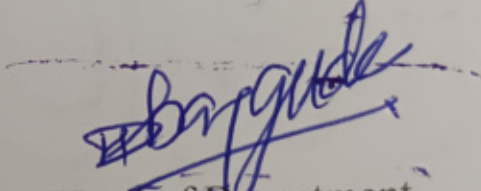
This is to certify that, Mr/Miss.....Patil Sanika Maruti.....
Roll No.607.... has participated in Tour and Tour Report
represents his/ her bonafide work in the year 2023-24 in Shivaji
University, Kolhapur, for B.Sc.III course in Physics.

Date:


Teacher In-Charge

6-3-2024


14/3/24
Examiner


Head of Department
DEPARTMENT OF PHYSICS.
DOODHSAKHAR MAHAVIDYALAYA
BIDRI -416208(MOUNI NAGAR)
TAL.KAGAL.DIST-KOLHAPUR



Page No. 1

Date :



STUDY TOUR REPORT 2023-2024



colors





Page No. 2

Date :



We Gathered at our college at
10:00 AM for the visit to shree doodh-
ganga vedganga Sahakari Karkhana
Ltd (Bidri)

We left from college at 11:00 pm
Then after we reached at the our
destination SHREE DOODHGANGA VEDGANGA
SAHAKARI KARKHNA LTD (BIDRI) with
our Teachers Mr - S. N Kulkarni and
magdum Sir





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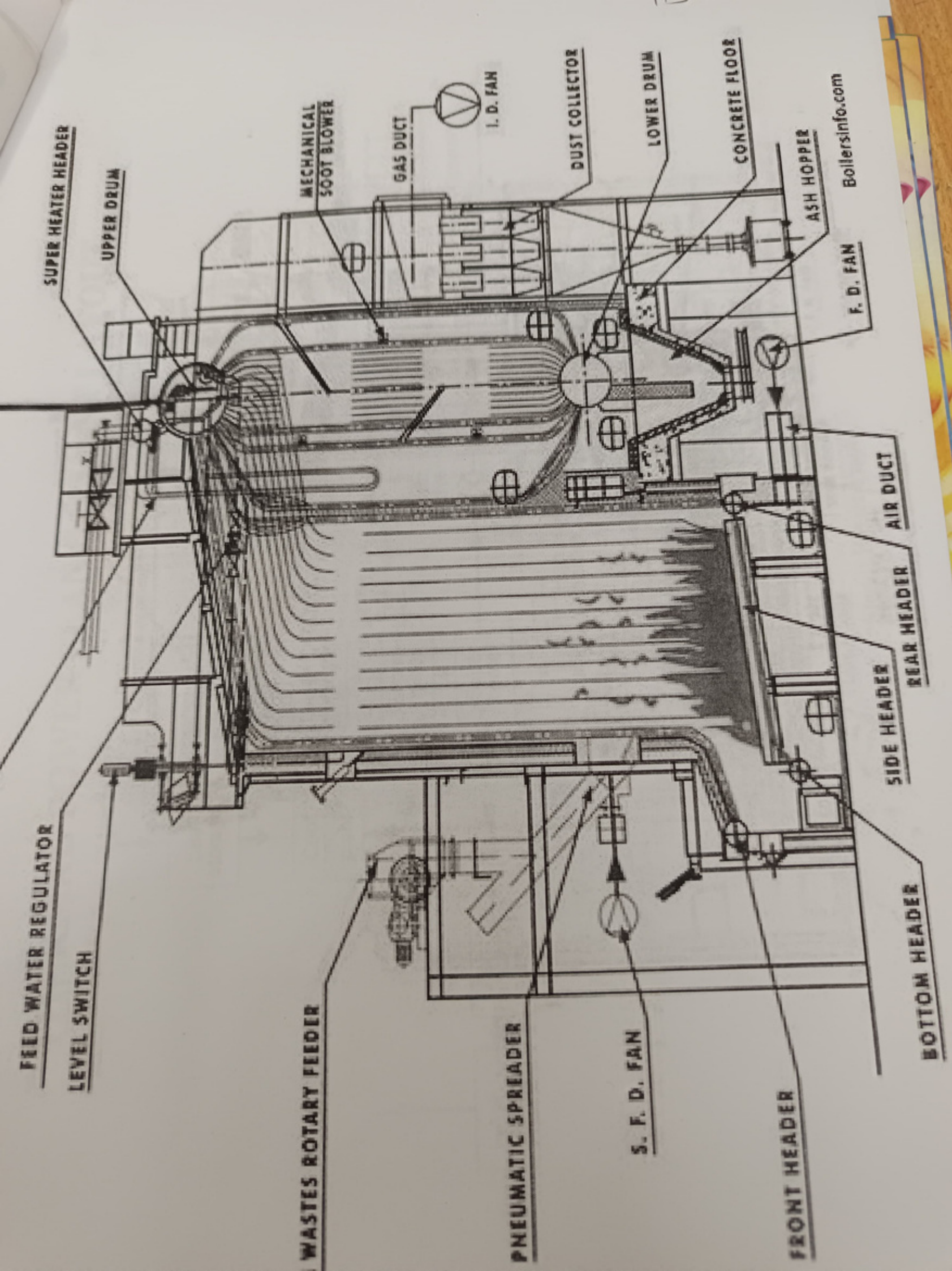
Date :



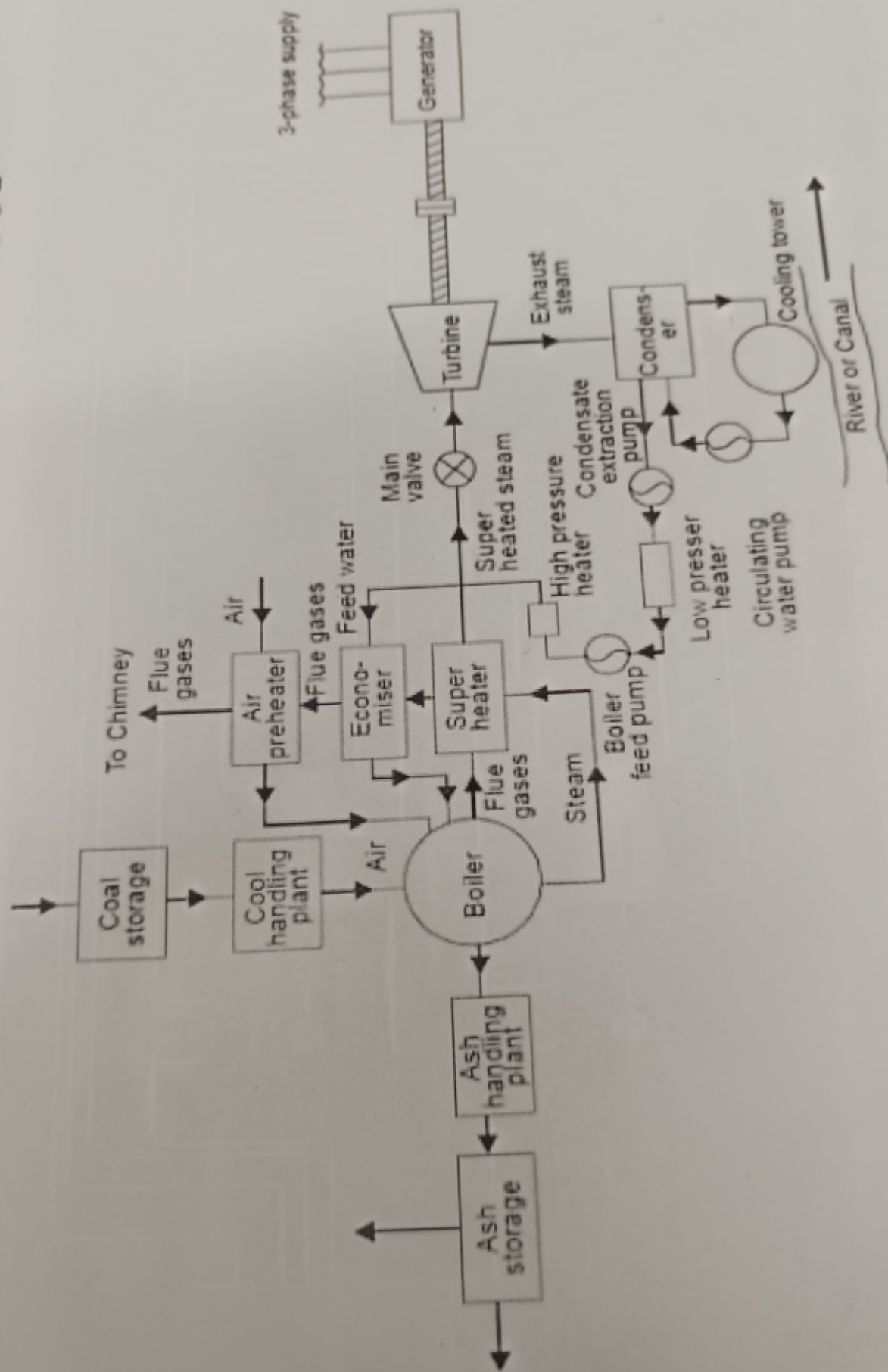
Components of Thermal Power plant :-

- High pressure boiler
- Condensing and cooling towers
- Coal handling system
- Draught system
- Feed water purification plant
- Air - preheater, Economizer, Super heater, Feed heater
- Ash and dust handling system
- Power house





THERMAL POWER PLANT - PLANT LAYOUT



Steam Power Plant.



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Date :



Coal handling system :-

Coal delivery equipment is one of the major components of plant cost. There were various steps involved in coal handling. In approximately 5000 ton of the coal is used for the plant in the case of the emergency.

Following are the steps involved in coal handling

- 1] Coal delivery
- 2] Uploading
- 3] Preparation
- 4] Transfer
- 5] outdoor storage (Dead storage)
- 6] Covered storage (live storage)
- 7] In plant handling
- 8] Feeding Coal into Furnace



colors





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Date :



Generation of the light :-

We can say 4.80.000 light is generated in these thermal power plant. An by these power plant 6 Rs 63 paise / unit light is being exported. Nearly 11.000 Kw light is exported.

Battery Backup :-

For the whole powerplant there is also a battery backup. there are two Type of operator. First one operator is the Turbine operator and second operator is the boiler operator.





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Date :



Boiler :-

Boiler is the one of the main component of the power plant. There are sum steps in the boiler. Boiler used is the multifuel. In the season if there is shortage of the sugarcane extract. The coal is also used. Nearly 5000 ton coal is used for the plant. The all over turnover of the plant is the 48 crore to 50 crore.

There is higher rate of temperature used in the boiler. It is around 702° . It is divided in two parts - steel drum and mud drum. Speed of the turbine is around 6850. Boiler is one of the main component in the power plant. High speed relay is about pressure 7200.



colors





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Date :



i) Coal delivery :-

The coal from supply points is delivered by ships or boats to power stations situated near the sea or river where as coal is supplied by rail or trucks to the power stations which are situated away from the sea river.

ii) Unloading :-

The type of equipment used for unloading the coal received at the power station depends on how coal is received after power station.

iii) Coal delivery Preparation :-

when coal delivery is in the form of big lumps and it is not of proper size, the preparation of a coal can be achieved by crushers, breakers sizes.



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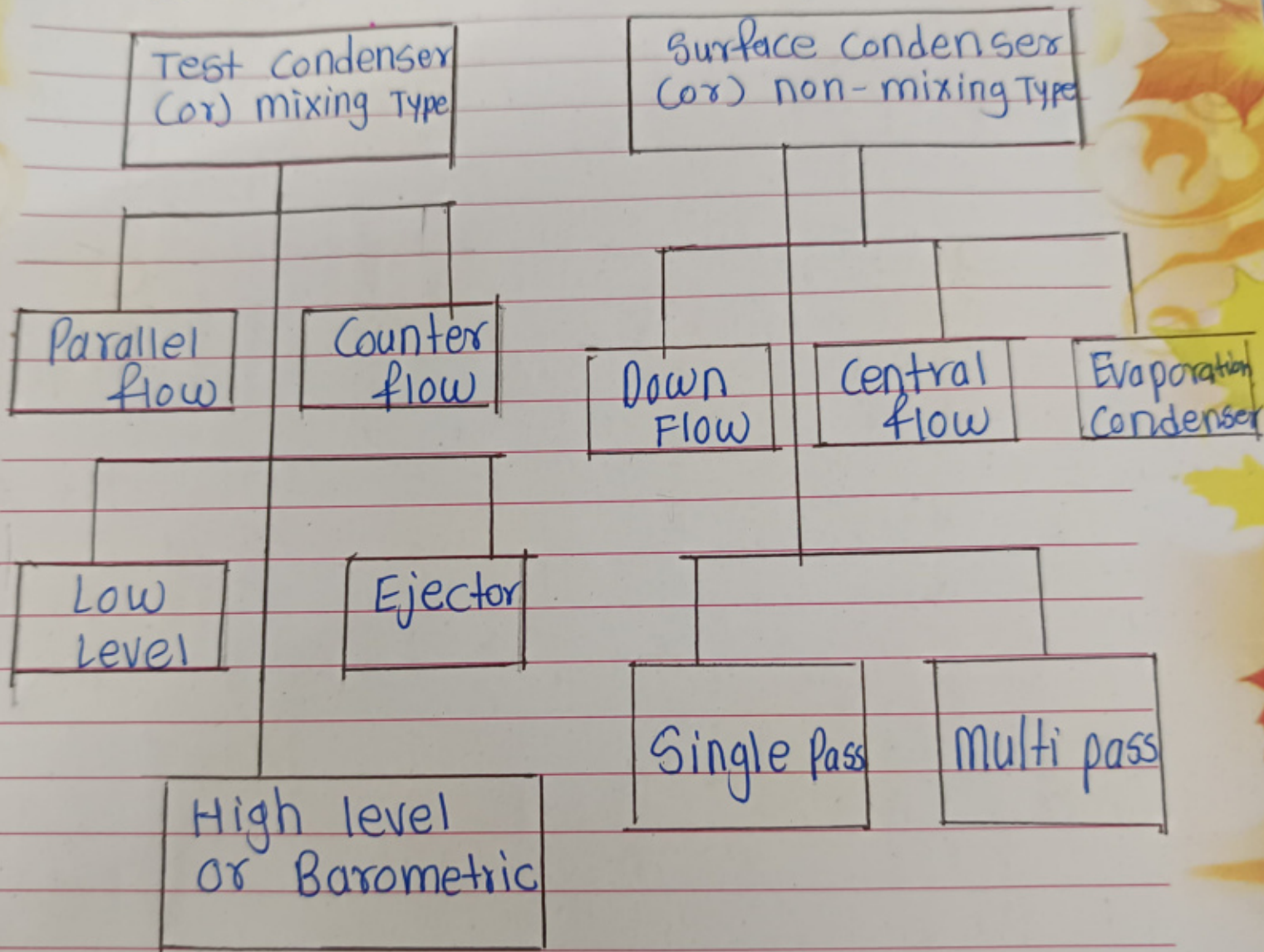
Page No.

Date :



Condenser :-

Condenser are classified as per follow







वेदगंगा सहकारी साखर कारखाना लि. (विडी (मैनीनगर))
पलर अग्निप्रदिपन समारंभ सन-२०२३-२४

लाभ शुभ लाभ

MR - 15290



शुभ लाभ



धर्मशास्त्र वेदशास्त्र सहकारि साखर कारखाना लि. - विटो (मौनीनगर)
बॉयलर अग्निप्रदिपन समारंभ - सन-२०२३-२४

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