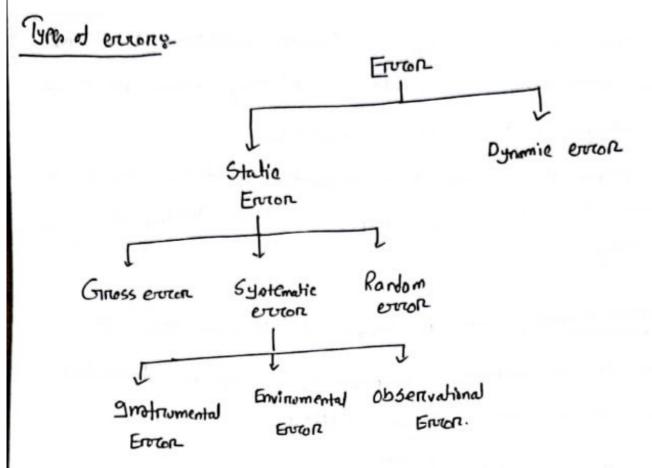
Actual valve.



Static euron: Static euror in the différence between meanured valve and its actual valve/true valve. Hove, tor a Particular neading-true valve are not change with respect to time, means—true valve in tixed but meanured valve is changed.

Es = Vm - VL

Es -> Stutic ouron

Vm -> meanured valve

9+ean be both +ve, -ve V-1 -> -trive "

Dynamie Outon: In Dynamic OUTOR, true value is changed with respect to time.

It is also called measurement ever.

in using meanuring imments on taking wrong readings or mistakes in recording observations.

These can not be Completely eliminated · But we can try to minimize teem by taking proper care while taking reading or recording observations.

Systematic erosono: 94 is occurs due to the lark of avality in measuring instruments Such as detective equipments on wear & tear effects.

मिल्सिन कारासंह

Random ercrome There ercrom occur due to unknown causes and neasons which are very difficult to indetermine

- Jeatures or the mechanical Structure of the imtruments

Environmental Ervores occur due to environmental effects Such as temperature, fressure, humidity etc.

Observational Ervores Stin occur due to evern in obnervation.

2 Precision; Ofference between Accordary

Accordacy

1) closeness of measurement to the D Repeatability of measurement. -true valve.

> value 25 mm True

Meanined value = 25.01 mm

- 2) Accorde value have to be precise in most cone.
- 3) of in affected with systematic CUTOR.
- 9+ can be determined by Single 40 mean rument.
- 5) Accordacy Can be improved.

Precision

True value = 25 mm

meanured valve= 25.5 mm

25.49 mm 25.51 Mm 25.52mm.

- D Prucine valve may on may not be accurate.
- 3) 9+10 attected with Mandom evers.
 - 4) To determine precision p. several measurement are required.
 - 5) Stin not improved.

Sources of Ernom:

- 1) Lick of knowledge about measurement process.
- 2) Operational Errorm
- B Poor design and Com truction.
- 4) Lack of preoper maintenance.
- 5) Change in priocess parameters and environmental Condition.