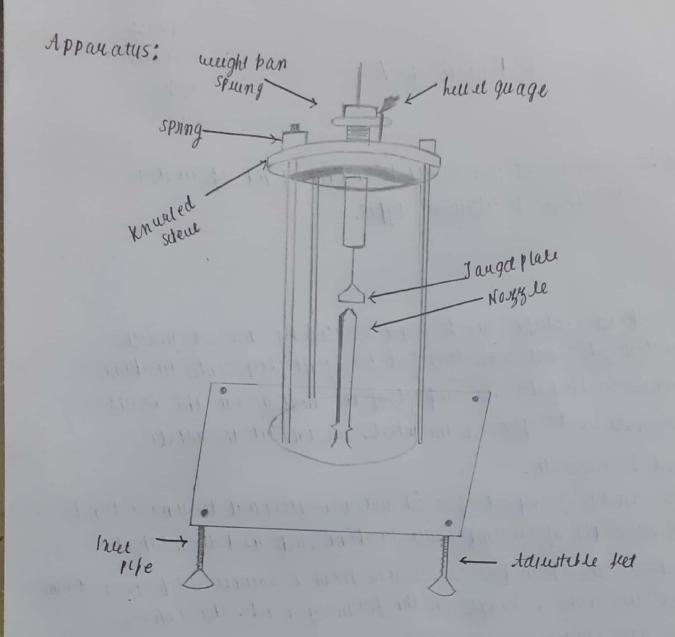
Practical - 7

Objective: - To measure jou ce due to impact of jet of water on vanus of different types.

Theory: Tuubines natate due to force excepted by one or more water jets that are directed tangentially anto turbine vanes are buckets. The impact of the water on the vanes generate a touque on the wheel, causing it to notate and to generate.

The study of impact of a jet male is essential to understand the principle of an impulsive turbine such as Petton wheel Jurbine when high pressure mater from a source such as a dam flows through a norther in the form of a jet, the entire inverse energy of the maler is converted into kinemaic energy at the norther in the journ of jet, the entire pressure integer of mater is converted into kinetic energy at the norther is converted into kinetic energy at the norther suchen the jet of mater hits a vane fastioned in frant of it, the vane defects the jet and due to the change in the momentum of mater jet, a force is impacted to the vane by mater.



Procedure:

- 1. Fit the suguested vane an the luce.
- 2. Measure the deferential leur aums.
- 3. Balance the level systems by means of country weight fact no road.
- 4. Place a wight on hanger.
- 5. Open the gate value and adjust the fit, so that the Levan aum is balanced.

6. Callect mater in the callecting tank.
Repeat the procedure jour different loads.

Formula used:

$$Y = Q/A$$

$$Fy = QPV(COSO+1)$$

$$W = QPV(COSO+1)$$

$$W = XPV^2(COSO+1)$$

9: Muid density

 $\theta: 180-\alpha[\alpha \rightarrow ylow angle]$

Precaution:

- 1. Fix the rans in the housing exactly above
- 2. Put the weight an hangen so that steel nod ne main
- 3. Minimum reakage juom tank.
- 4. Shut the apening of transparent tank so that make