EXPERIMENT -

AIM: To study behaviour of frow-meter-Rota meter.

APPARATUS: Rota meter, measuring tank, sumptank, supply pump set, switch and starter, juame work mounting etc.

THEORY: A notometer is commonly used type of industrial flowmet & that it used to measure flownate of liquid gas 9t consists of tapered tube with with float inside.

Rotameters work in simplistic way: fluid raises float when it passes through tapered tube. When there is no flow, float stays resting at bottom. Rotameters are widely used because they are easy to install ound maintain and they have fairly wide measurement range, a now pressure alrop and linear scales.

PROCEDURE: 1) Make sure that notameter is in verital position.

2) start flow by operating value slowly.

3) observe that froat romes to dynamic equilibrium position

4) Upward and downward movement of float depends

5) Float gives readings on calibrated scape in terms
of flow reate

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Su No.	ROTAMETER (lph) meading	eps (calc)	2PS (OPS)	evror
1	300	0.0833	0.086	3.137.
2	500	0.1388	0.141	1.567.
3		0.1944		
	800			
5	900	0.25	0.2087	19.797.

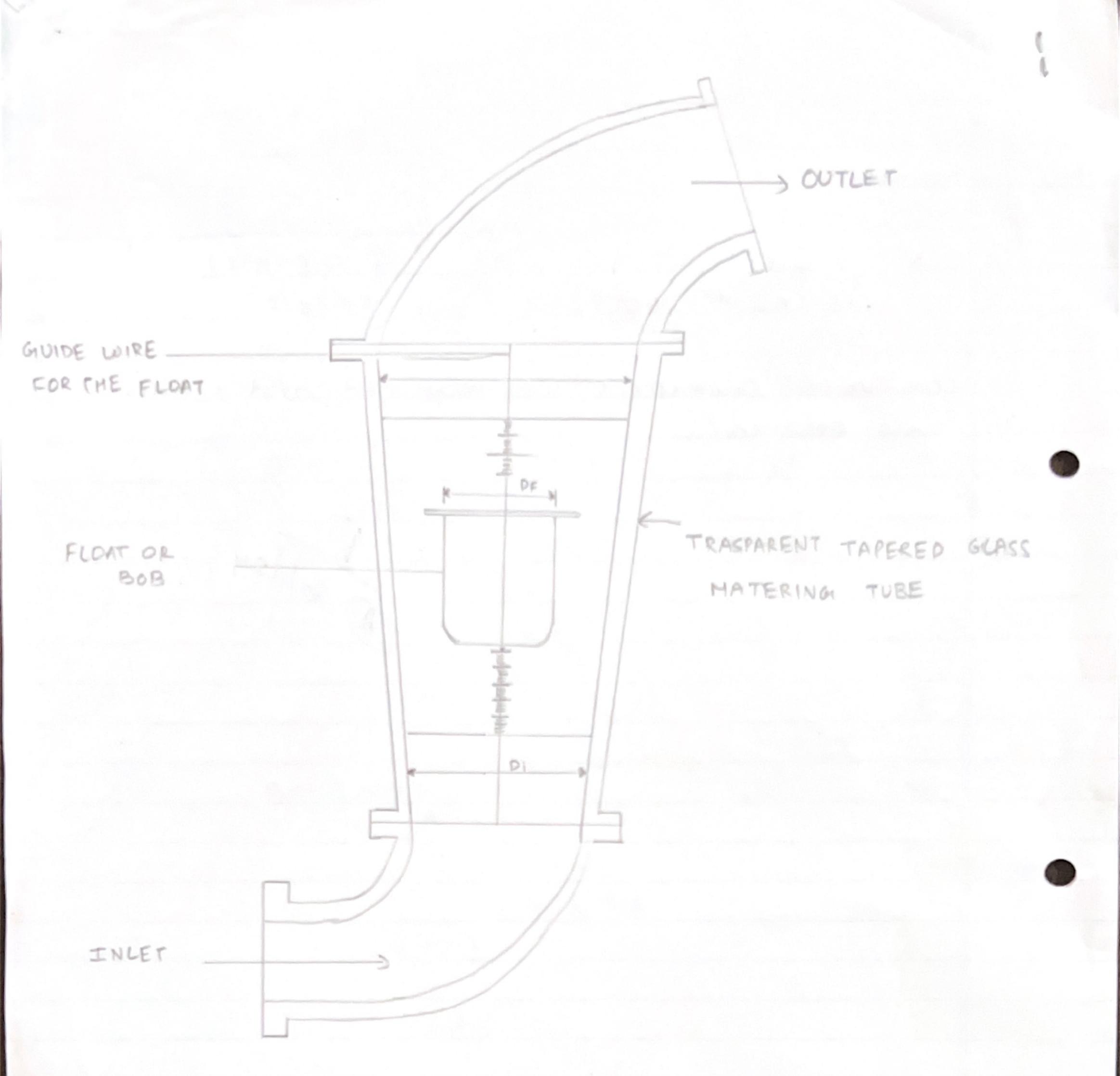
0.003 littles -> Ihr

 $\frac{2L}{0.002} = 309.6$

lph = 309.6

2ps = 00862ps

	Equation:
	$K = Cd \qquad 12g \qquad Uf \cdot (ef - e/f)$ $J_{1}-(At-Af)^{2}/At^{2} \qquad Af(e/f)$
	conclusion: Emperiment was performed and reading were observed.
	J 1/24
Sundaram	FOR EDUCATIONAL USE



ROTAMETER