

LOSSES IN PIPING SYSTEM

5.0 RESULT

1) Long pipe

Flow Volume = _____

Test No.	Time (s)	Flowrate, Q (m ³ /s)		Tube Reading, (mm)	Experimental Head Loss,	Calculated Head Loss, $fLv2^{2}$ $H_{L} = $	
			(3)	(4)	$({f h}_3-{f h}_4)$	$\frac{11}{2gd}$	
1							
2							
3							
4							
5							



2) Expansion and contraction section

Flow Volume = _____

Test No.	Time (s)	Flowrate, (m³/s)	Expansion				Contraction			
			Piezometer Tube Reading (mm)		Experimental Head Loss	Calculated Head Loss	Piezometer Tube Reading (mm)		Experimental Head Loss	Calculated Head Loss
			(7)	(8)	(h 7 – h 8)	$H_{L} = \frac{(v_1 - v_2)^2}{2g}$	(9)	(10)	(h 9 − h10)	$H_{L} = \frac{k v_2^2}{2g}$
1										
2										
3										
4										
5										



