Table 1 Five different stability classes based on the Value of Froude Number

Range of Froude Number	Condition of Stability	Range of Wind Speed (m/s)
$-2 < \frac{1}{F_r} < -1$	Very stable	1.5-2.5
$-1 < \frac{1}{F_r} < -0.6$	Unstable	3.5-4.5
$-0.2 < \frac{1}{F_r} < 0.2$	Neutral	4.5-5.5
$0.6 < \frac{1}{F_r} < 1$	Stable	6.5-7.5
$1 < \frac{1}{F_r} < 2$	Very stable	7.5-8.5

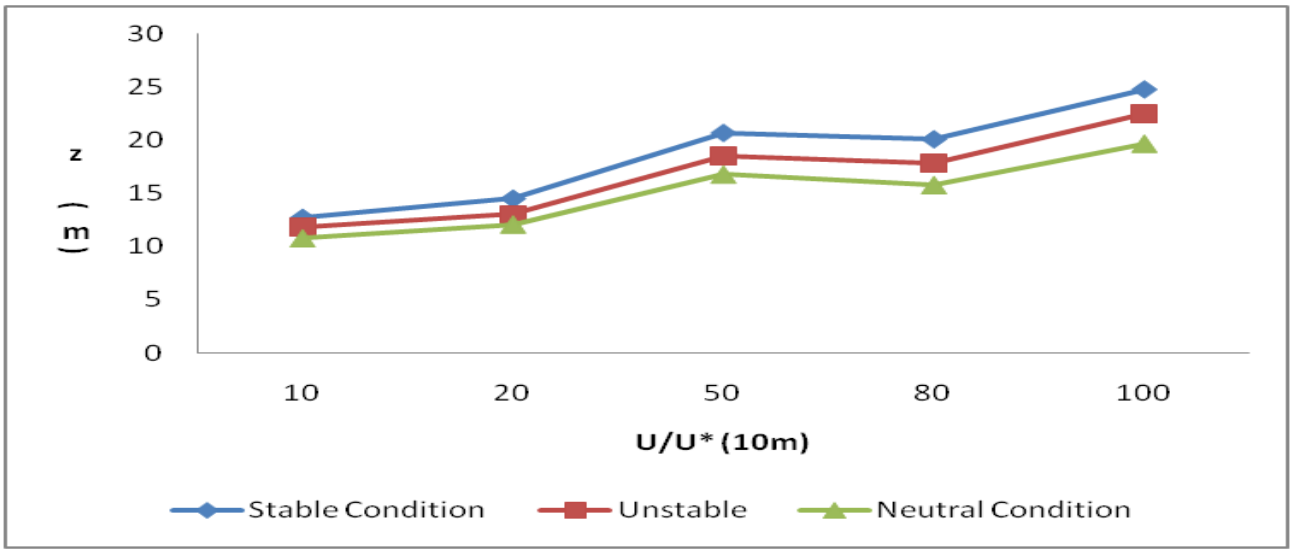

Fig. 1. Non-dimension Velocity profile for three stability classes. Stability regions are classified based on the different Obukhuv lengths.

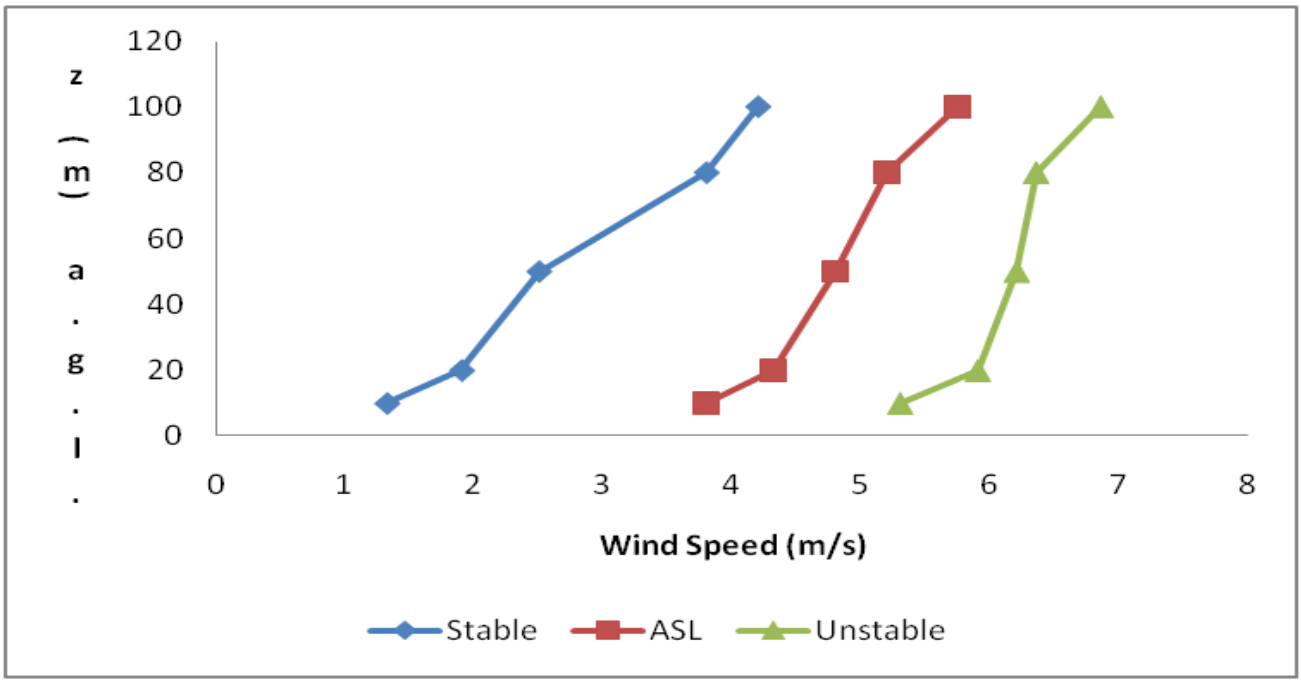

Fig. 2. Velocity profile for Masts M1 (All dotted points are 10 min averages)

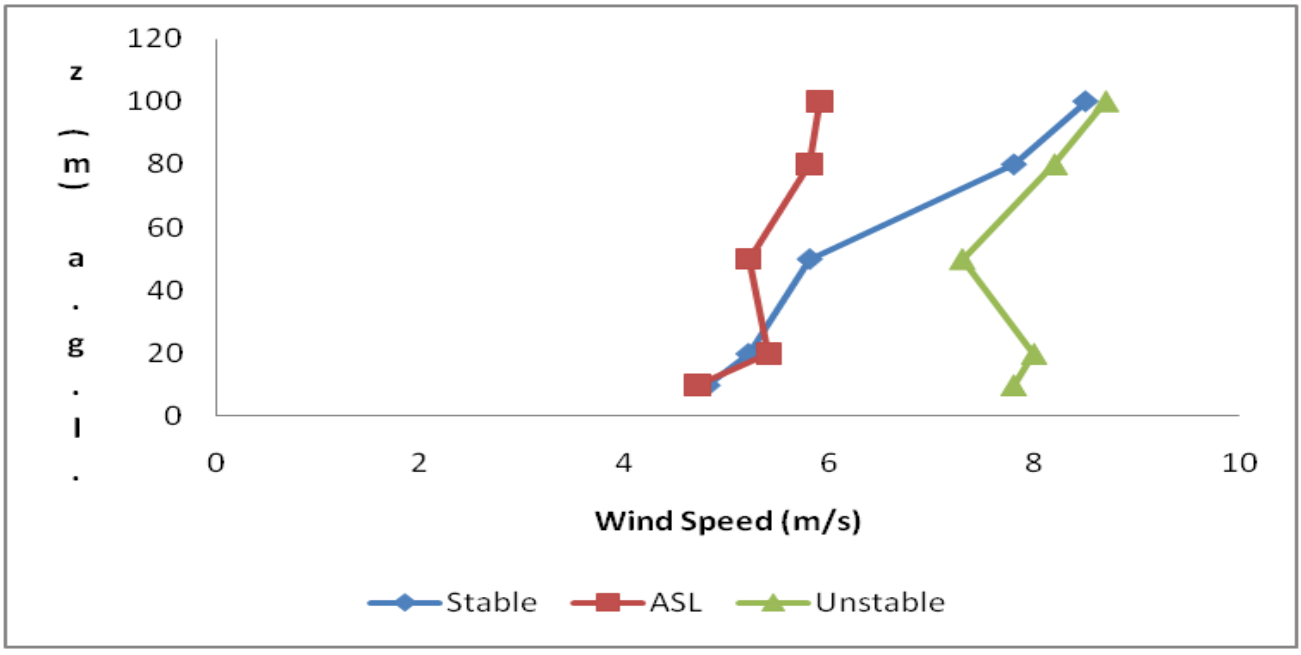

Fig. 3. Velocity profile for Masts M2 (All dotted points are 10 min averages)