

LIST OF TABLE

Table list	Page. No
Table No 1: World statistics on landslides (1900 – 2010)	3
Table No 2: Data on various events and fatalities between (1800- 2011)	3
Table No 3: Landslide studies in Himachal Pradesh	30
Table No 4: Soil Dhalli landslide, Himachal Pradesh	53
Table No 5: Geology Dhalli landslide, Himachal Pradesh	53
Table No 6: Geomorphology Dhalli landslide, Himachal Pradesh	54
Table No 7: LULC Dhalli landslide, Himachal Pradesh	54
Table No 8: Landslide Susceptibility – Dhalli landslide, Himachal Pradesh	61
Table No 9: Soil – Jhakri landslide, Himachal Pradesh	64
Table No 10: Geology – Jhakri landslide, Himachal Pradesh	64
Table No 11: Geomorphology – Jhakri landslide, Himachal Pradesh	65
Table No 12: LULC – Jhakri landslide, Himachal Pradesh	65
Table No 13: Soil – Kotropi landslide, Himachal Pradesh	72
Table No 14: Geology – Kotropi landslide, Himachal Pradesh	73
Table No 15: Geomorphology – Kotropi landslide, Himachal Pradesh	73
Table No 16: LULC – Kotropi landslide, Himachal Pradesh	74
Table No 17: Landslide Susceptibility – Kotropi landslide, Himachal Pradesh	77
Table No 18: Data used for the study	88
Table No 19: Various Joint sets – Dhalli Landslide	97
Table No 20: Geolocation of Soil samples collected – Jhakri Landslide	99
Table No 21: Percentage of various Soil particles – Jhakri Landslide	101
Table No 22: Atterberg Limit– Jhakri Landslide	104
Table No 23: Normal and Shear Stress – Jhakri Landslide	105
Table No 24: Effective Shear Stress under various normal loads – Jhakri Landslide	105
Table No 25: Rock mass classification	108
Table No 26: Corresponding RMR values for Dhalli landslide	111
Table No 27: Corresponding SMR values for Dhalli landslide	112

Table No 28: Results of Point load test done perpendicular to the plane of weakness	116
Table No 29: Frequency of joint sets along the Dhalli landslide area.	117
Table No 30: Corresponding RMR values for Jhakri landslide	124
Table No 31: Corresponding SMR values for Jhakri landslide	125
Table No 32: Geolocation of Soil samples collected – Dhalli Landslide	125
Table No 33: Percentage of various Soil particles – Dhalli Landslide	127
Table No 34: Atterberg limit – Dhalli Landslide	128
Table No 35: Normal and Shear stress values – Dhalli Landslide	129
Table No 36: Shear stress failure at various normal stress and corresponding Cohesion and Angle of internal friction– Dhalli Landslide	130
Table No 37: Geolocation of Soil samples collected – Kotropi Landslide	131
Table No 38: Particle size analysis – Kotropi Landslide	132
Table No 39: Atterberg limit – Kotropi landslide	133
Table No 40: Normal and Shear Stress – Kotropi landslide	134
Table No 41: Effective Shear Stress under various normal loads – Kotropi landslide	135
Table No 42: FOS at various stages of Slope stability modeling – Jhakri landslide	140
Table No 43: Type of support structures with varying spacing and widths	141
Table No 44: FOS at various stages of Slope stability modelling – Kotropi landslide	144
Table No 45: Type of support structures with varying spacing and widths – Kotropi landslide	144