

LIST OF FIGURES

Figure		Page
1	Geological map of the Lidderwat and surrounding areas showing the Location of Mount Kayol.	4
2	Graphic representation of the variability in age of the Panjal volcanic activity in various regions of Kashmir.	8
3	Plagioclase phenocryst showing fractures healed-up with chlorite and epidote.	14
4	Plagioclase phenocryst showing inclusions of altered pyroxene.	14
5	Development of biotite across vesicle boundary.	19
6	Plots of the Panjal Traps on ACN face of ACFN tetrahedron.	27
7	Plots of the Panjal Traps on MgO -Al ₂ O ₃ /SiO ₂ variation diagram.	33
8	Alkali - Silica diagram for the Panjal Traps.	35
9	MFA diagram for the Panjal Traps.	39
10	Fe ₂ O ₃ + FeO - SI diagram for the Panjal Traps.	43

Figure		Page
11	SiO ₂ - SI diagram for the Panjal Traps	44
12	Plots of the Panjal Traps showing (a) SiO ₂ , (b) Total iron, and (c) TiO ₂ against Fe ₂ O ₃ + FeO/MgO.	46
13	Solidification Index variation diagram for the Panjal Traps.	47
14	Major oxides of the Panjal Traps plotted against Fe ₂ O ₃ + FeO/MgO.	49
15	Distribution of the Panjal Traps shown on (a) Nb/Y - Zr/P ₂ O ₅ , (b) P ₂ O ₅ - Zr, and (c) TiO ₂ - Zr/P ₂ O ₅ diagrams of Winchester and Floyd (1975).	60
16	Plots of V contents against Cr and V contents against Fe ₂ O ₃ + FeO/MgO ratio. ..	62
17	Plots of the Panjal Traps on SiO ₂ versus Cr diagram of Miyashiro and Shido (1975)..	63
18	Plots of the Panjal Traps on (a) Ti-Zr-Y, (b) Ti-Zr, and (c) Ti-Zr-Sr diagrams of Pearce and Cann (1973).	89
19	TiO ₂ -K ₂ O - P ₂ O ₅ plots of the Panjal Traps.	93