FIGURES

CHAPTER I

SECTION-A

1. Map showing the schist belts of Karnataka State
2. Map showing the accessibility around Herkal - Amingarh area
3. Map showing the topography of the area around Herkal - Amingarh area.
4. Map showing the drainage pattern around Herkal - Amingarh area
5. Geological map of Karnataka State
6. Geological map of Herkal - Amingarh area

SECTION-B

7. Structural map of Herkal - Amingarh area

CHAPTER II

8. QAP triangular variation diagram for granitic rocks (after Streckeissen, 1967 and Viswanathan, 1973)
9. $Na_2O$ v/s $K_2O$ variation diagram for granitic rocks
10. $CaO$-$Na_2O$-$K_2O$ ternary diagram for granitic rocks
11. Si molecules v/s $Na_2O$+$K_2O/CaO$ diagram for granitic rocks (after Mármo, 1955)
12. $Fe+Ti-Al-Mg$ ternary diagram for ultrabasic rocks (after Jensen, 1976)
13. $MgO-CaO-Al_2O_3$ ternary diagram for ultrabasic rocks (after Viljoen and Viljoen, 1969 b)
14. (c+fm)-al-alk ternary diagram for phyllites
15. al-alk v/s c binary diagram for phyllites
16. CaO-Na₂O-K₂O ternary diagram for phyllites (after Condie, 1967)

17. Infra-red spectra for ferruginous shales

18. C-100mg-(al-alk) ternary diagram for dolerites (after Leake, 1964)

19. MgO-CaO-Al₂O₃ ternary diagram for dolerites (after Viljoen and Viljoen, 1969b)

20. (Fe+Ti)-Al-H₂O ternary diagram for dolerites (after Jensen, 1976)

21. CaO v/s Al₂O₃ diagram for dolerites (after Viljoen and Viljoen, 1969b)

22. Diagram showing the grain shapes (camera lucida drawings) of Kaladgi quartzarenites

23. Diagram showing the grain shapes (camera lucida drawings) of Badami quartzarenites

24. Log SiO₂/Al₂O₃ v/s Log Na₂O/K₂O diagram for Kaladgi and Badami quartzarenites (after Pettijohn, 1975)

25. A. Cumulative curves for Kaladgi quartzarenites
   B. Cumulative curves for Badami quartzarenites

26. Standard deviation v/s median diameter for Kaladgi and Badami quartzarenites (after Stewart, 1958)

27. C-H plots for Kaladgi and Badami quartzarenites (after Passega, 1957)

28. Log-log plot of mean phi deviation of all samples (ordinate) against the ratio of standard deviation of kurtosis to standard deviation of mean size times, standard deviation of variance of all samples (abscissa) of several combinations of parameters for Kaladgi and Badami quartzarenites (after Sahu, 1964)

29. Infra-red spectra for laterites

CHAPTER III

31. X-ray diffraction pattern for haematite and specularite

32. X-ray diffraction pattern for magnetite

33. Infra-red spectra for IFs

34. Al$_2$O$_3$-SiO$_2$-Fe$_2$O$_3$ ternary diagram for IFs (after Govett, 1966)

35. (CaO-MgO)-SiO$_2$ ternary diagram for IFs (after Lepp and Goldich, 1964)

36. Al$_2$O$_3$ v/s TiO$_2$ binary diagram for IFs (after Paras, 1975; Kajoki and Saikkonen, 1977)

CHAPTER IV

37. X-ray diffraction pattern for haematite and magnetite

38. Infra-red spectra for iron ores

39. Histogram of trace element concentration of iron ores

CHAPTER V

40. Compression strength v/s binder concentration binary diagram.