

## LIST OF PLATES

| SL.NO. | PLATE DESCRIPTION  | PAGE NO. |
|--------|--|----------|
| 3.1    | QUARTZITE XENOLITH OCCLUDED WITHIN AMPHIBOLITE   | 39       |
| 3.2    | ENCLAVES OF BASIC GRANULITE WITHIN GRANITIC GNEISS   | 39       |
| 3.3    | CALC-GNEISS ENCLAVED WITHIN GRANITIC GNEISS & RECRYSTALLISED LIMESTONE BOULDERS ARE STUDED | 40       |
| 3.4    | CHARNOCKITE QUARRY (BIRD'S EYE VIEW)   | 40       |
| 3.5    | CONTACT BETWEEN GRANITIC GNEISS & CONCORDANT SILLS OF AMPHIBOLITE                          | 44       |
| 3.6    | MIGMATITE  | 44       |
| 3.7    | TIGHT ISOCLINAL FOLDING IN MIGMATITE   | 46       |
| 3.8    | PRETECTONIC-PEGMATITE VEINS IN GRANITIC GNEISS   | 46       |
| 3.9    | AUGEN GNEISS   | 50       |
| 3.10   | SLICKENSIDE IN GNEISS  | 50       |

| <b>SL.NO.</b> | <b>PLATE DESCRIPTION (Contd.)</b>   | <b>PAGE NO.</b> |
|---------------|---|-----------------|
| 4.1           | ELONGATED AND DEFORMED POLYGONAL-QUARTZ AND GRANULATION OF MINERALS IN CHARNOCKITE            | 59              |
| 4.2           | BENDING AND ALTERATION ALONG CLEAVAGES OF CALCITE IN CALC GRANULITE                           | 59              |
| 4.3           | RECTANGULAR AND BROWNISH RED GROWTH OF MICROLITIC-RUTILE ALONG THE CLEAVAGES OF ORTHOPYROXENE | 59              |
| 4.4           | KELYPHITIC RING OF HYDROXYL MINERALS AROUND ORTHOPYROXENE                                     | 62              |
| 4.5           | COMPLEX TWINNING IN PLAGIOCLASE FELDSPARS OF BASIC GRANULITE                                  | 62              |
| 4.6           | ZONED FELDSPAR IN CHARNOCKITE   | 62              |
| 4.7           | BENT-TWIN LAMELLAE IN PLAGIOCLASE & FELDSPAR SHOWS BRUSH TYPE EXTINCTION                      | 64              |
| 4.8           | WEDGING AND MICROFAULTING OF TWIN BANDS IN PLAGIOCLASE  | 64              |
| 4.9           | NEMATOBLASTIC TEXTURE IN AMPHIBOLITE  | 64              |
| 4.10          | SPECKS OF MAGNETITE SEGREGATED ALONG THE INNER MARGINS OF HORNBLende AND BIOTITE              | 66              |

| <b>SL.NO.</b> | <b>PLATE DESCRIPTION (Contd.)</b>                                     | <b>PAGE NO.</b> |
|---------------|---|-----------------|
| 4.11          | BLEB AND ROD PERTHITES IN CHARNOCKITE                                 | 66              |
| 4.12          | MYRMEKITE TEXTURE IN CHARNOCKITE                                      | 66              |
| 4.13          | OBLITERATION OF PLAGIOCLASE TWINNING BY K-FELDSPAR IN GRANITIC GNEISS | 69              |
| 4.14          | FRESH MICROCLINE SURROUNDED ALTERED PLAGIOCLASE                       | 69              |
| 4.15          | LAMELLAR INTERGROWTH BETWEEN ORTHO & CLINO PYROXENE                   | 69              |
| 4.16          | GRANULAR TEXTURE IN BASIC GRANULITE                                   | 73              |
| 4.17          | EUHEDRAL SPHENE AND APATITE IN CHARNOCKITE                            | 73              |
| 4.18          | QUARTZO-FELDSPATHIC VEINS INTERVEVE PERTHITE IN GRANITIC GNEISS       | 73              |