General remarks

- $^1$H NMR spectra were recorded on AC-200 MHz, AC-400 MHz, Jeol-400 MHz and DRX-500 MHz spectrometer using tetramethylsilane (TMS) as an internal standard. Chemical shifts have been expressed in ppm units downfield from TMS.

- $^{13}$C NMR spectra were recorded on AC-50 MHz, AC-100 MHz, Jeol-100 MHz and DRX-125 MHz spectrometer.

- EI Mass spectra were recorded on Finnigan MAT-1020 spectrometer at 70 eV using a direct inlet system.

- Infrared spectra were scanned on Shimadzu IR 470 and Perkin-Elmer 683 or 1310 spectrometers with sodium chloride optics and are measured in cm$^{-1}$.

- Optical rotations were measured with a JASCO DIP 370 digital polarimeter.

- Melting points were recorded on Buchi 535 melting point apparatus and are uncorrected.

- All reactions are monitored by Thin layer chromatography (TLC) carried out on 0.25 mm E-Merck silica gel plates (60F-254) with UV light, I$_2$, ninhydrin and anisaldehyde in ethanol as development reagents.

- All solvents and reagents were purified and dried according to procedures given in Vogel’s Text Book of Practical Organic Chemistry. All reactions were carried out under nitrogen or argon atmosphere with dry, freshly distilled solvents under anhydrous conditions unless otherwise specified. Yields refer to chromatographically and spectroscopically homogeneous materials unless otherwise stated.

- All evaporations were carried out under reduced pressure on Buchi rotary evaporator below 40 °C.

- Silica gel (60–120) used for column chromatography was purchased from ACME Chemical Company, Mumbai, India.

- All melting points and boiling points are uncorrected and the temperatures are in centigrade scale.

- The compounds, scheme and reference numbers given in each section of chapter refers to that particular section of the chapter only.