1. Compound, figure, scheme and reference numbers given in each part and every section refer to that particular part/section only.

2. Most solvents were distilled prior to use whenever needed.

3. Ultra-sound irradiation was carried out in Bandelin Sonorex (35 KHz) ultrasonic bath.

4. Microwave irradiation was carried out in microwave oven equipped with a turntable was used (LG Smart Chef MS-255R operating at 2450 MHz having maximum output of 900 W).

5. TLC analyses were carried on ready made GF-254 TLC plate (Make-Merck).

6. Organic layers were dried over anhydrous sodium sulfate.

7. In case where chromatographic separations were done, silica gel 60-120 was used as the stationary phase.

8. $^1$H NMR and $^{13}$C NMR spectra were recorded on Varian NMR spectrometer, Model Mercury Plus (400 MHz) and NMR Spectrometer AC (200 MHz) in either DMSO-$d_6$ or CDCl$_3$ as a solvent and sometimes using mixture of both. Chemical shifts are expressed in $\delta$ (ppm) units downfield to internal standard TMS. $^1$H NMR data is expressed using standard notations in the following order: - Chemical shift, assignment, splitting pattern ($J$ = coupling constant).

9. Chemical shift values for $^1$H NMR data are rounded up for decimal points with digits upto 2 decimals and in case of $^{13}$C NMR upto 1 decimal.

10. Mass spectra were recorded on Single-Quadrupole Mass Detector 3100, Waters and Water-Micro mass Quatro-II spectrometer.

11. Melting points of all the synthesized compounds were determined in open capillaries and are uncorrected.