General Remarks

1. All the melting points were determined by open capillary method and are uncorrected.
2. PMR spectra were recorded on Bruker Avance-II FT at 300 MHz using TMS as internal standard. Chemical shift are expressed in δ ppm. DMSO $d_6$ is used as a medium. In the PMR spectra therefore the peaks observed/recorded at 2.52 and 3.30 are for the protons of impurities of DMSO and water in DMSO $d_6$, respectively.
3. The $^{13}$C NMR spectra were recorded on Bruker Advance 300 (300 MHz FT NMR') and chemical shift are expressed in δ ppm. Fully decoupled $^{13}$C NMR spectra are presented.
4. IR spectra of the products were recorded using KBr pellets. The characteristic I.R. bands of the synthesized molecules are in good agreement with assigned structures.
5. Mass spectra were recorded on JEOL-ACuTOF DART (ESI⁺ Mode) mass spectrometer.
6. Elemental analyses were done on EA1108 (Calo-Erba) at CDRI, Lucknow.
7. The names assigned to the intermediates and final products of work are by following ChemDraw software system of IUPAC nomenclature.
8. The spectra of the intermediates and final products are in agreement with assigned structures. Hard copies of the spectra are preserved. However in the thesis spectra of representative compounds of the series are presented.