

Fig. 1S

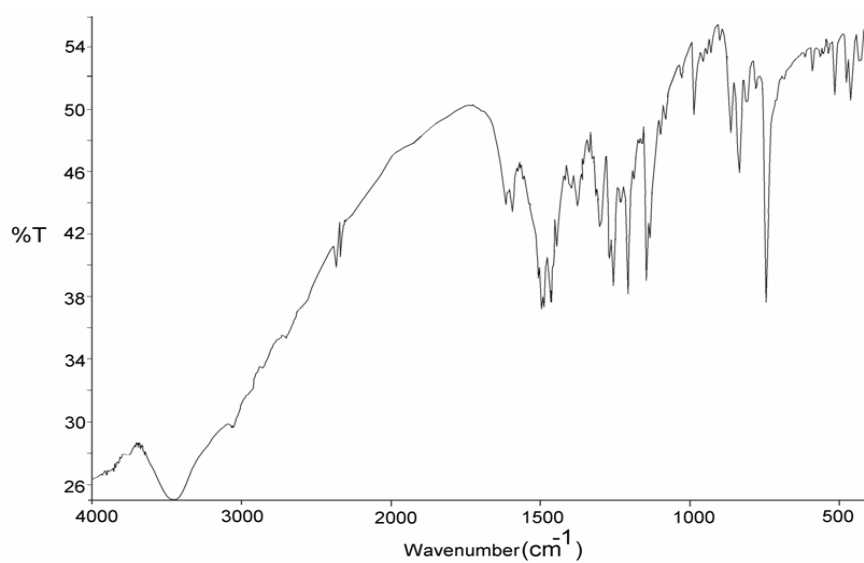


Fig. 1S: FTIR spectrum for Cu^{II}(HPAN)₂

Fig. 2S

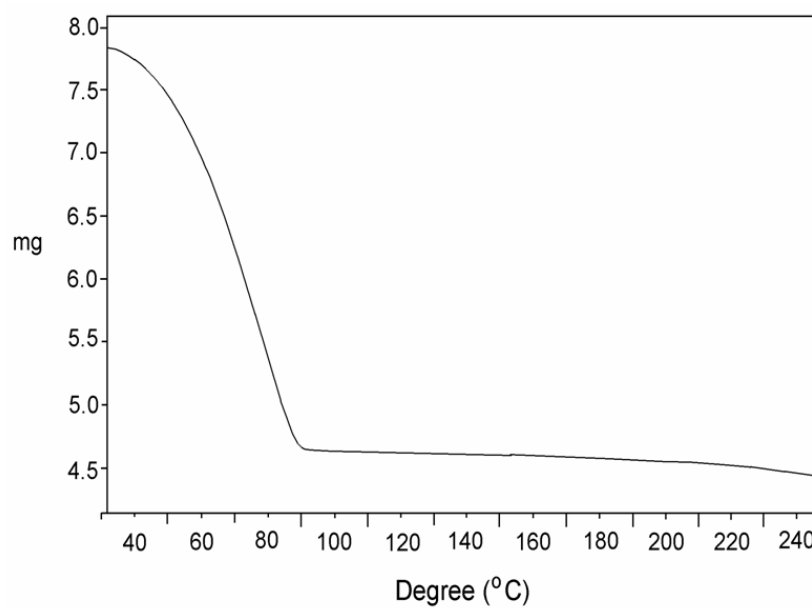


Fig. 2S: TGA curve of Cu^{II}(HPAN)₂

Fig. 3S

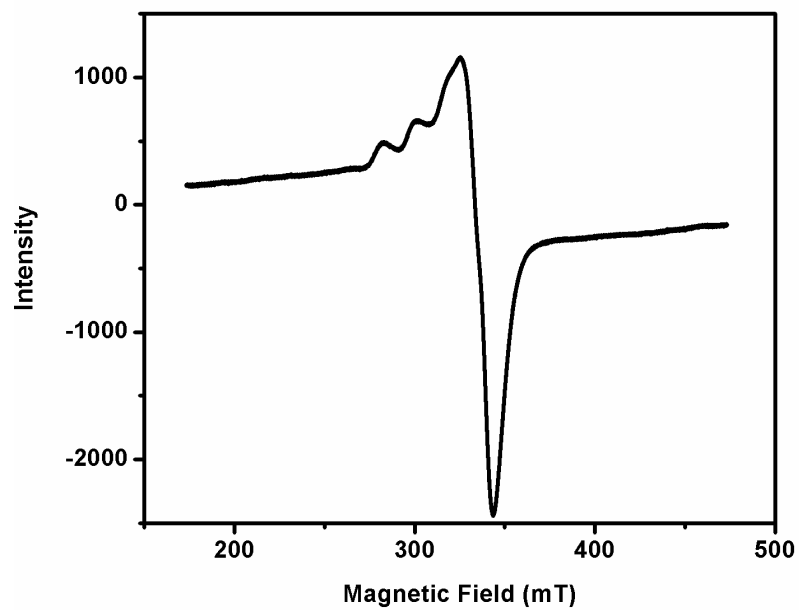


Fig. 3S: EPR spectrum of $\text{Cu}^{\text{II}}(\text{HPAN})_2$ recorded at 298 K

Fig. 4S

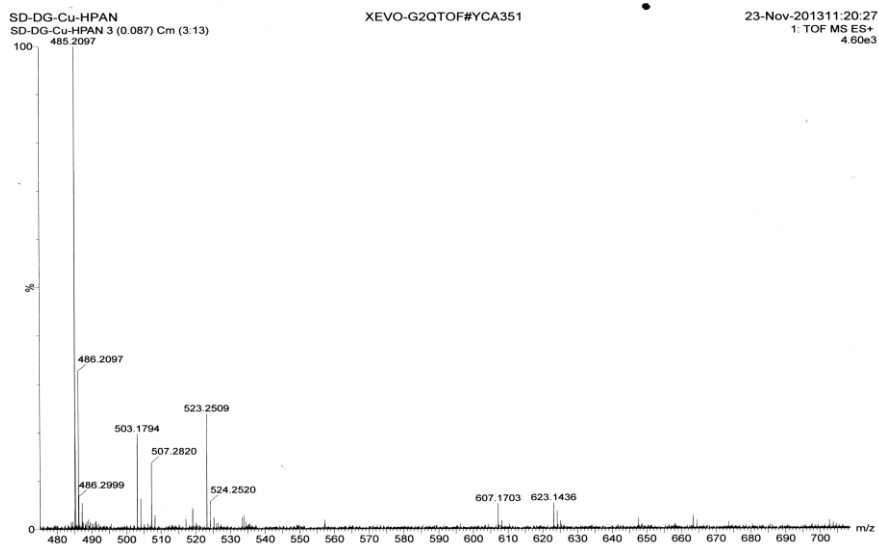


Fig. 4S: Mass spectrum of $\text{Cu}^{\text{II}}(\text{HPAN})_2$

Fig. 5S

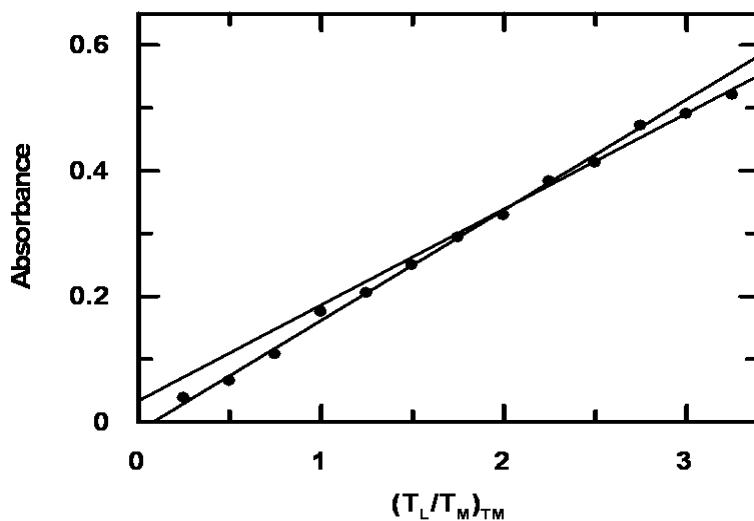


Fig. 5S: A typical plot for the determination of stoichiometry in solution by mole ratio method, following change in absorbance at 520 nm for Cu^{II} and HPAN; $[\text{NaNO}_3] = 0.05 \text{ M}$, Temp = 25°C .

Fig. 6S

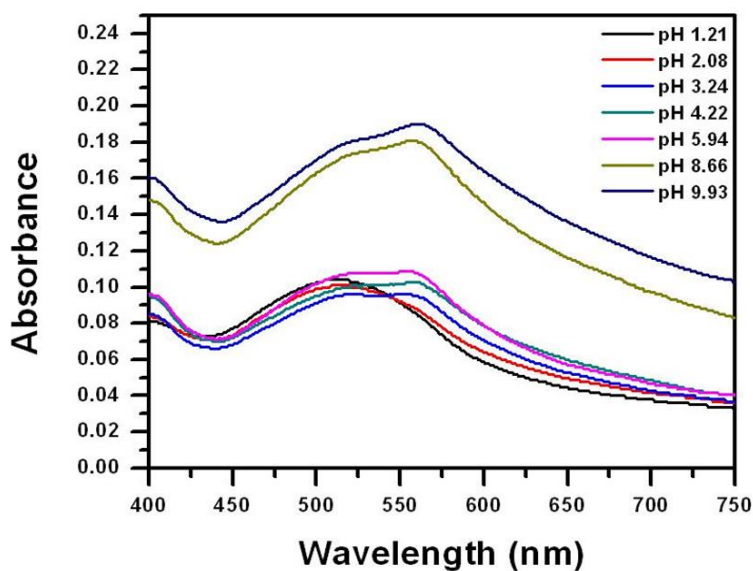


Fig. 6S: Absorption spectra for HPAN in the presence of Cu^{II} in aqueous solution at different pH (1) 3.81 (2) 5.65 (3) 7.71 (4) 9.50 (5) 11.66 $[\text{HPAN}] = 12\mu\text{M}$, $[\text{Cu}^{\text{II}}] = 6\mu\text{M}$, $[\text{NaNO}_3] = 0.05 \text{ M}$, Temperature = 298 K

Fig. 7S

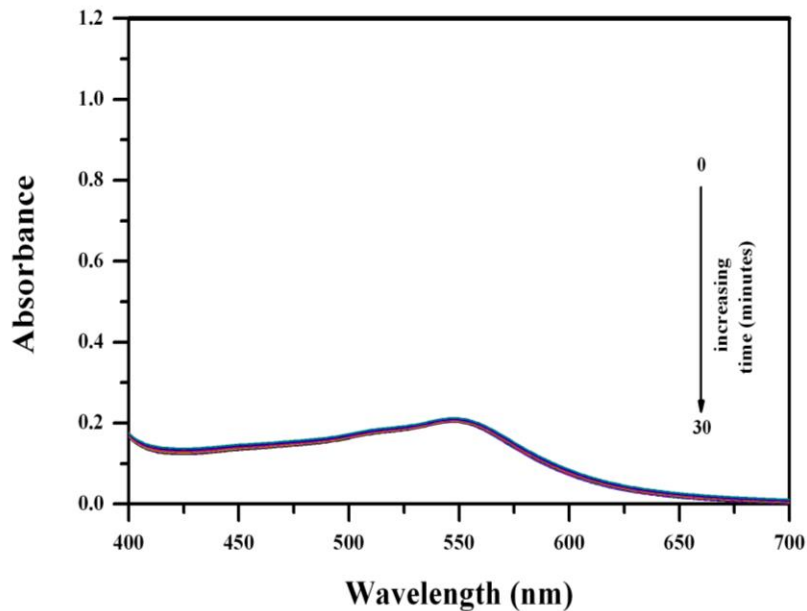


Fig. 7S: Plot of absorbance of $[\text{Co}^{\text{II}}\text{-(HPAN)}_2]$ in the presence of NADPH and cytochrome c reductase in phosphate buffer medium (pH ~ 7.4) containing 0.12 M NaCl for time $t = 0$ to $t = 30$ minutes at 310 K in an enzymatic assay that monitors gradual reduction of the azo bond. The spectra indicate gradual loss of absorbance at 543 nm. $[\text{NADPH}] = 0.00032\text{gm/ml}$; Cytochrome c reductase = 8 U/Lit. $[\text{Co}^{\text{II}}\text{-(HPAN)}_2] = 100\text{ }\mu\text{M}$.