

Fig. 1S

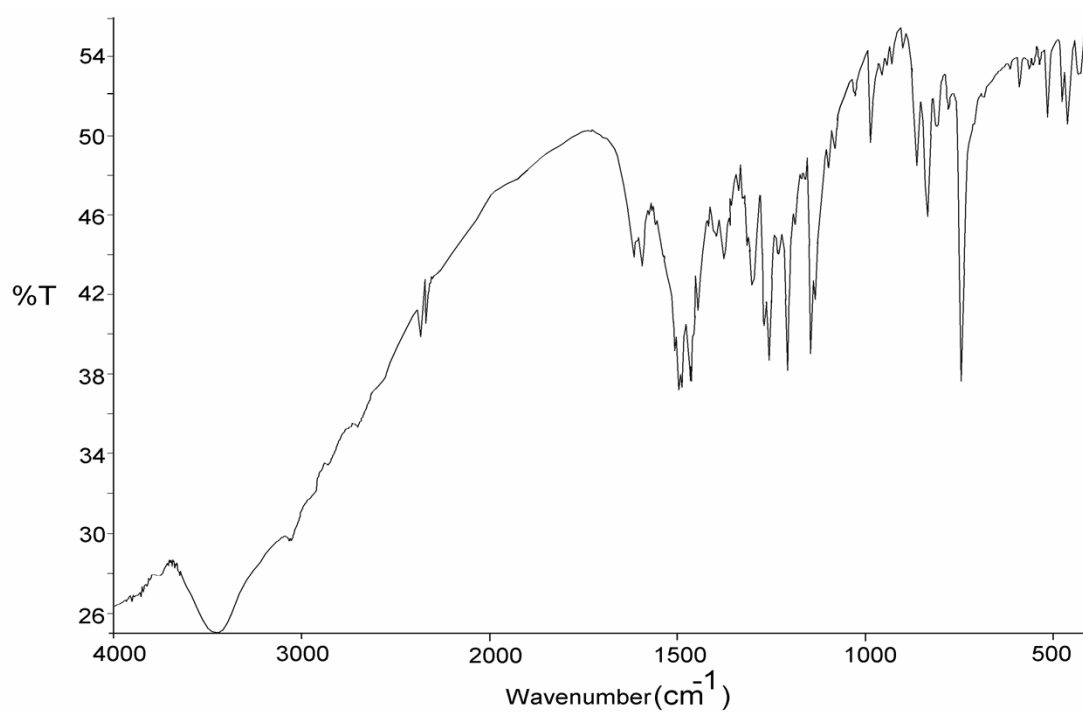


Fig. 1S: FTIR spectrum for Cu^(II)(HPAN)₂

Fig. 2S

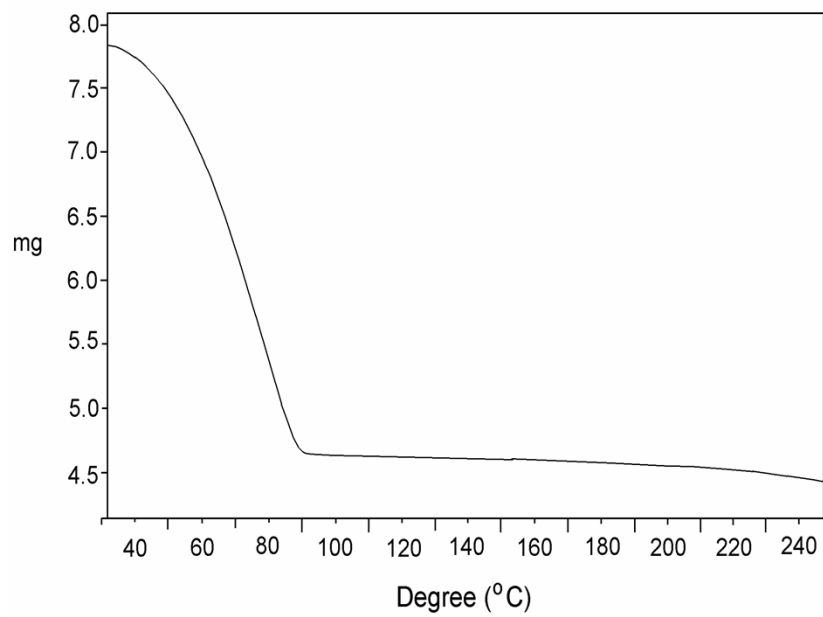


Fig. 2S: TGA curve of Cu^(II)(HPAN)₂

Fig. 3S:

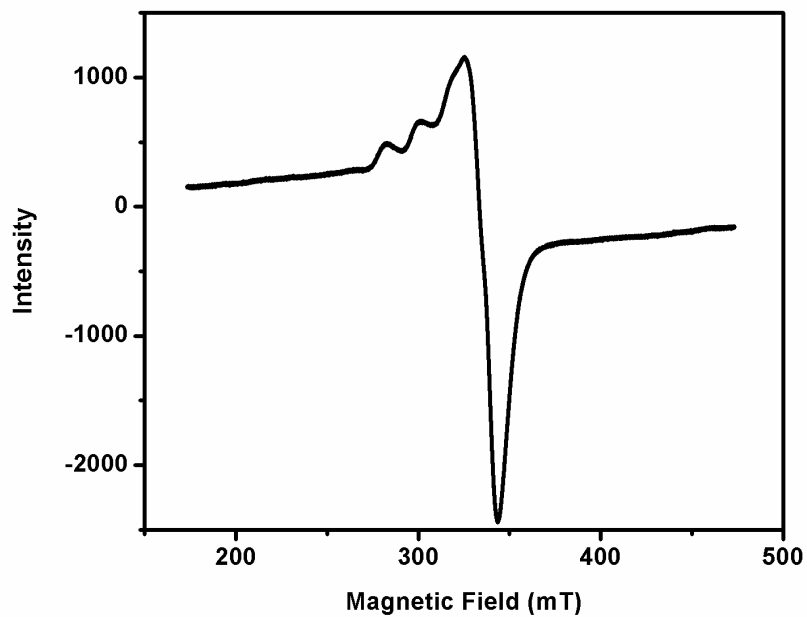


Fig. 3S: EPR spectrum of $[\text{Cu}^{\text{II}}(\text{HPAN})_2]$ recorded at 298 K

Fig. 4S

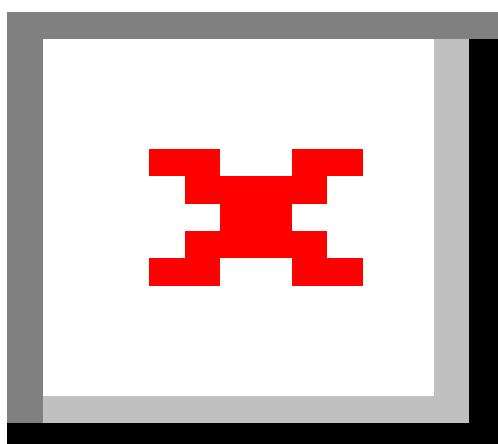


Fig. 4S: Mass spectrum of $\text{Cu}^{\text{(II)}}(\text{HPAN})_2$

Fig. 5S

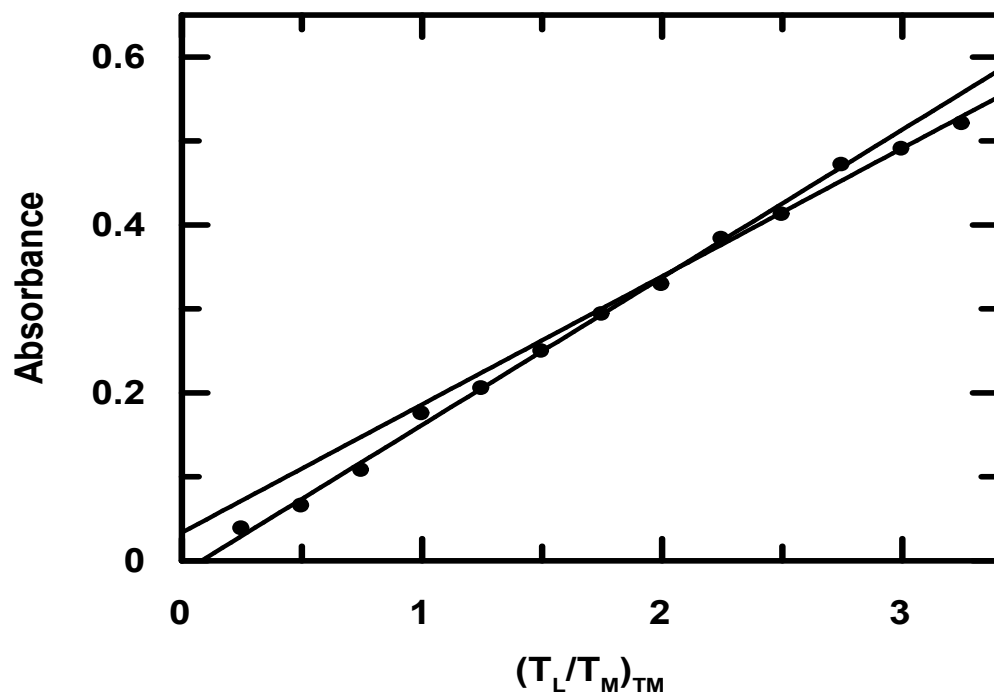


Fig. 5S: A typical plot for the determination of stoichiometry in solution by mole ratio method, following change in absorbance at 520 nm for Cu(II) and HPAN; $[\text{NaNO}_3] = 0.05\text{M}$, Temp = 25°C.

Fig. 6S:

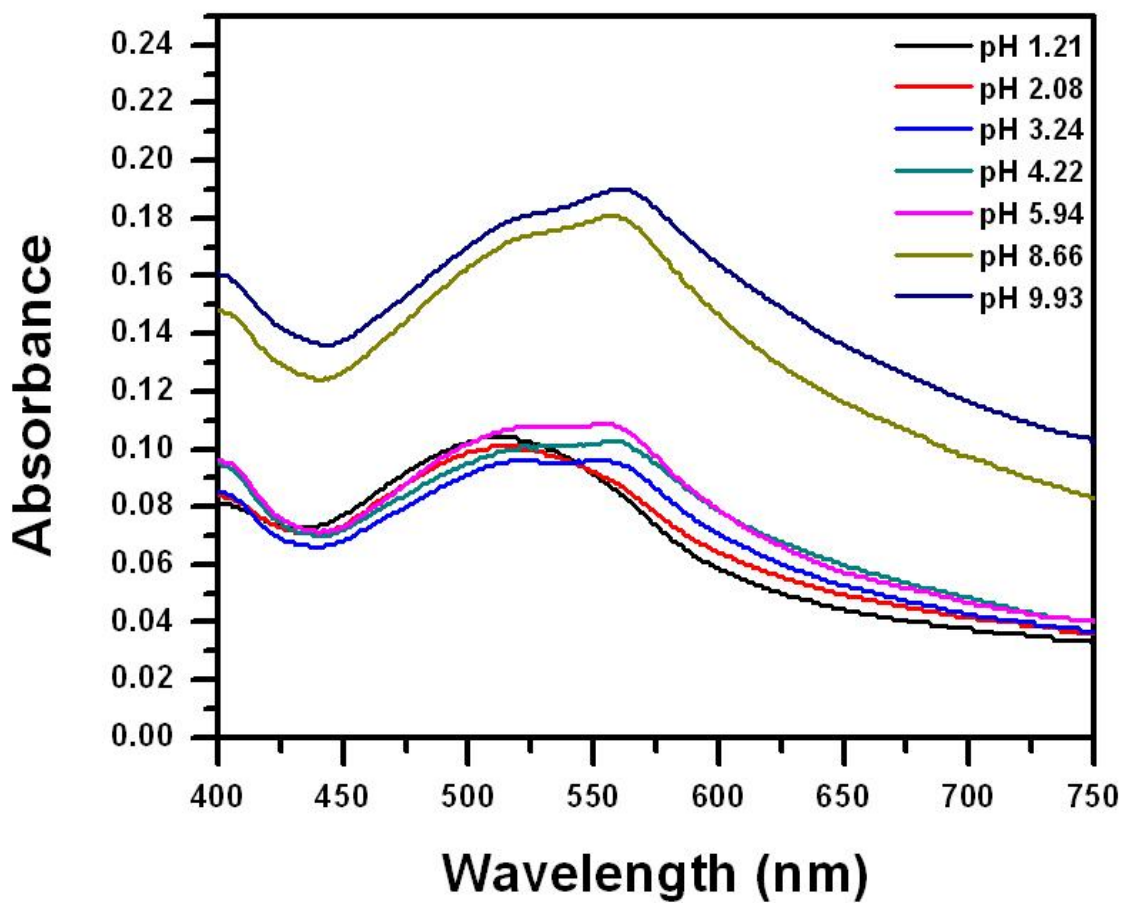


Fig. 6S: Absorption spectra for HPAN in the presence of Cu(II) in aqueous solution at different pH (1) 3.81,(2) 5.65, (3) 7.71, (4) 9.50,(5)11.66 [HPAN] = 12 μ M, [Cu⁺²] = 6 μ M, [NaNO₃] = 0.05 M, Temperature = 298 K.

Fig. 7S

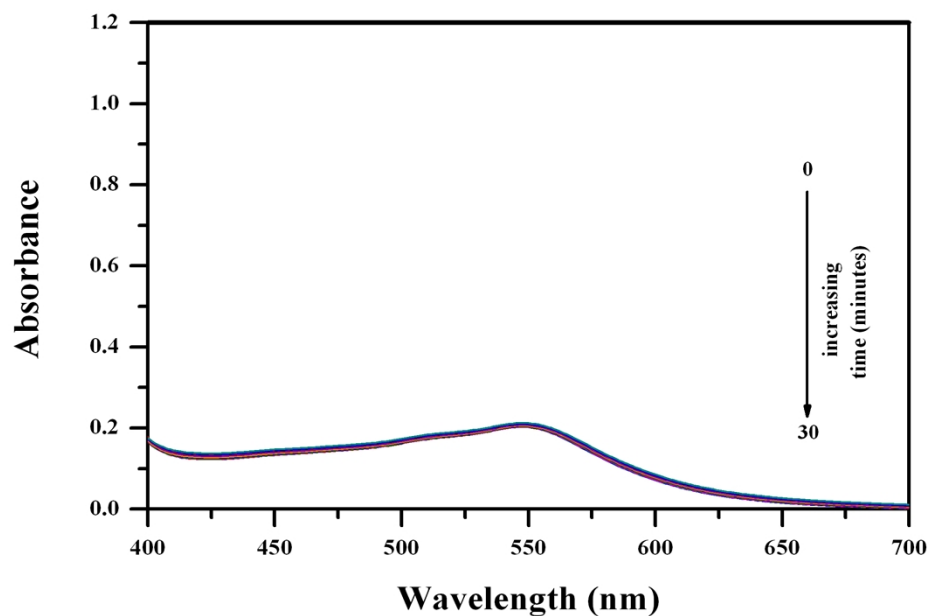


Fig. 7S: Plot of absorbance of [Co^(II)-(HPAN)₂] in the presence of NADPH and cytochrome c reductase in phosphate buffer medium (pH ~ 7.4) containing 0.12 M NaCl for time t = 0 to t = 30 minutes at 310 K in an enzymatic assay that monitors gradual reduction of the azo bond. The spectra indicate gradual loss of absorbance at 543 nm. [NADPH] = 0.00032gm/ml; Cytochrome c reductase = 8 U/Lit. [Co^(II)-(HPAN)₂] = 100 μM.